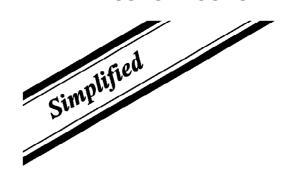
ORDER NO. HPD0404U18A1

E11

Service Manual

MASSAGE LOUNGER



EP3202-U1

Please file and use this simplified manual together with the service manual for Model No. EP3203,OrderNo. HPD0401U11C1.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1. REPLACEMENT PARTS LIST FOR EP3202

NOTES:

THE FOLLOWING IS THE REPLACEMENT PARTS LIST EXCLUSIVELY FOR EP3202.REFER TO THE EP3203 SERVICE MANUAL FOR THE PARTS THAT ARE NOT MENTIONED HERE.

Ref.No	Part No.	Part Name & Description	Remarks	Per Unit
1	WEP3202K4458	CONTROLLER BLOCK(FOR EP3202)		1
2	WEP3202L4018	MASSAGE MECHANISM BLOCK(FOR EP3202)		1
3	WEP3202K8008	PACKAGING(FOR EP3202)		1

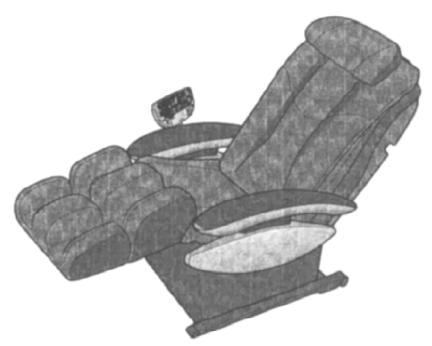
ORDER NO.HPD0401U11C1

E11

Service Manual

MASSAGE LOUNGER

EP3203-U1



SPECIFICATIONS

SPECIFICATIONS

AC120V 60Hz **Power Supply:**

Power Consumption: 200W (Approx. 5W in Standby mode with the control panel turned off or stopped)

Upper Body Massage

Massage Area (Up-Down): Approx. 30in. (76cm) (The massage heads move a total of approx. 64cm)

Massage Area (Left-Right): Distance between Massage Heads during Operation

Neck, Shoulder, Lower Back: Approx. 2.0 - 8.3in. (5 - 21cm) Approx. 2.0 - 5.9in. (5 - 15cm) Back:

Approx. 3.9in. (10cm) Massage Area (Forward-Back):

Up-Down Movement Speed: Approx. 25 - 90 sec. return. Massage Speed: Knead A, B:

Approx. 9 -- 15 cycles/min. Approx. 200 - 700 sec. (one way)

Tap: **Lateral Travel:** Approx. 2.0in. (5cm) left-right auto return

Lateral/Vertical Travel: Approx. 30in. (76cm) up-down auto return Vertical Travel (Long): Vertical Travel (Short): Approx. 4in. (10cm) up-down auto return

Massage Width: Rolling, Vertical Movement: Approx. 2.0 - 5.9in. (5 - 15cm)

Other than the above: Same as massage area (left-right).

Lower Body Massage

Air Pressure: Strong: Approx. 22kPa

Medium: Approx. 16kPa Weak: Approx. 10kPa Approx. 120° - 170° Backrest:

Reclining Angle: Legrest: Approx. -5° - 85°

Automatic Shut-Off: Approx. 15 min. for both upper and lower body

Dimensions:

When not reclined. $(H \times W \times D)$ 45.3 × 30.3 × 49.2in. (115 × 77 × 125cm) When reclined. $(H \times W \times D)$ 28.3 × 30.3 × 72.8in. (72 × 77 × 185cm)

Approx. 164lbs (74kg) Weight of Unit: Weight in Box: Approx. 195lbs (88kg) 264lbs (120kg) **Maximum User Weight: Minimum Distance from Wail:** 16in. (40cm)

1

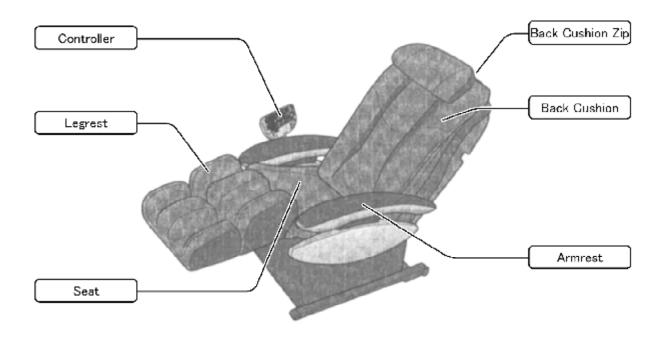
⚠ WARNING

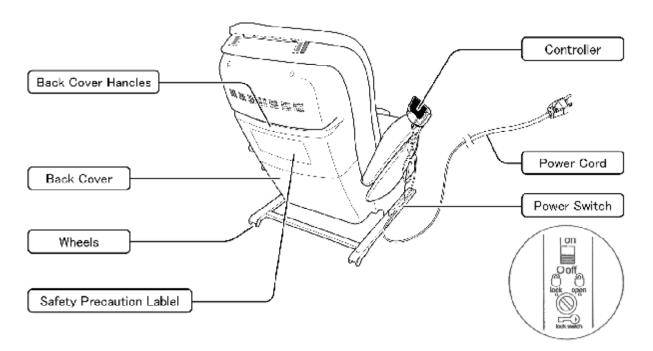
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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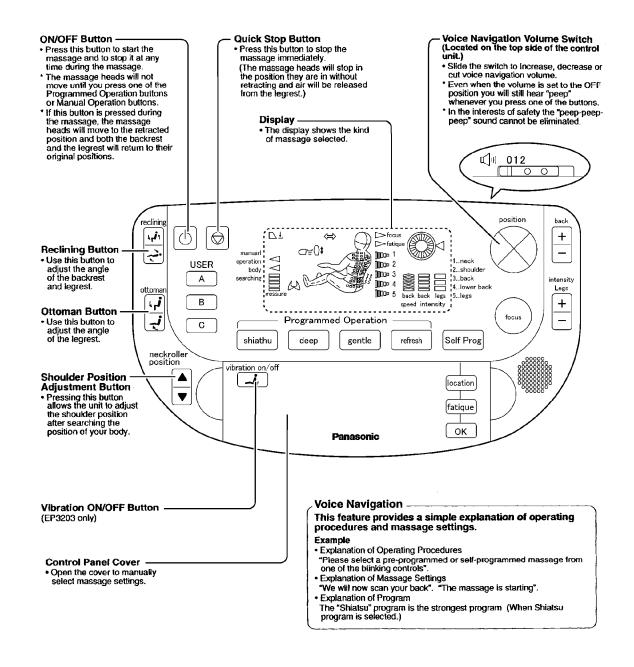
1. COMPONENTS IDENTIFICATION

1.1. Massage lounger





1.2. Controller



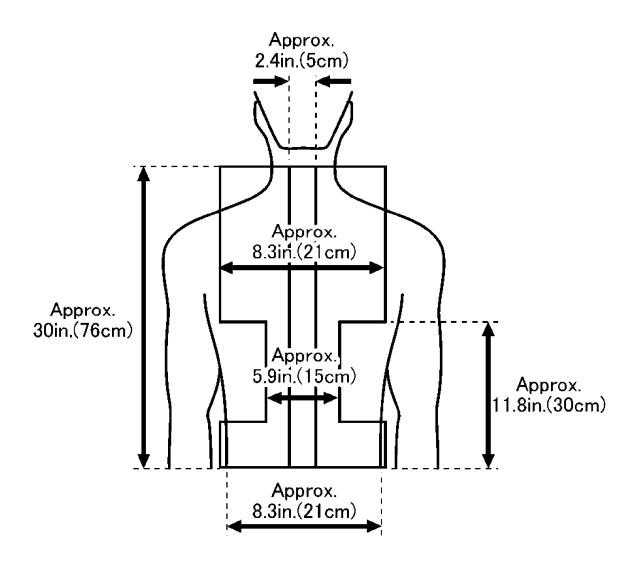
2. MASSAGE RANGE (MOVEMENT RANGE OF MASSAGE WHEELS) SHIATSU MASSAGE, SWEDISH MASSAGE, KNEADING, VIBRATING, TAPPING A, TAPPING B, TAPPING C, WHOLE BACK ROLLING, REGIONAL ROLLING

Width adjustment Approx.50 to 210 mm (2.4in. to 8.3in.)

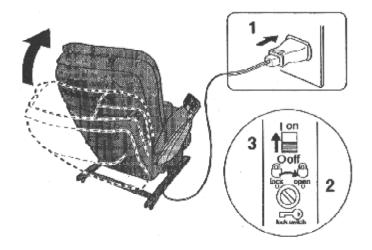
Intensity adjustment

Shiatsu, Swedish, Knead, vibration, Tap A, Tap B, Tap C, whole back roll, and Regional roll (from gentle to strong)

:50mm(2.4in.)-wide adjustability where massage heads push out toward body as intensity increases.



3. TURNING ON THE POWER



- 1. Plug the power plug into the power socket.
- 2. Turn the lock switch to the open position.
- 3. Turn on the power switch on the back of the unit.
 - When the operating lock switch is pointing toward 'lock', the power switch cannot be moved to the 'on' position.

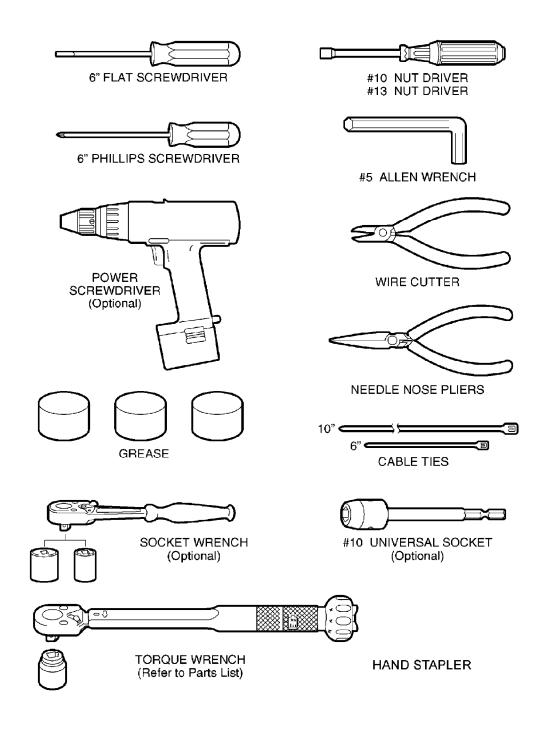
After each use.

- Be sure to turn the power switch to 'off'.
- To prevent children from using this unit, lock the power switch by moving the operating lock switch to the 'lock' position.
- As a further caution, unplug the power cord from the power socket after each use.

Timer

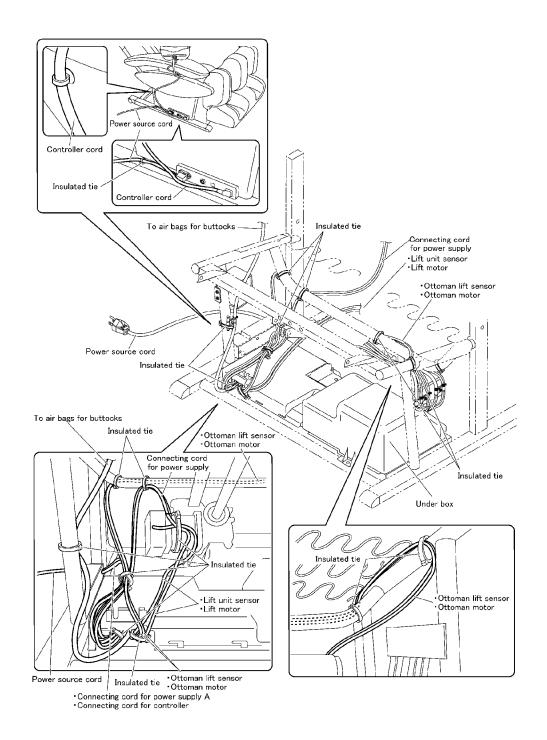
When the on/off button is pushed, a timer begins to prevent overuse. After approximately 15 minutes, time expires and the massage wheel goes into storage position.

4. REQUIRED TOOLS



5. ACTUAL WIRING DIAGRAM

5.1. Connecting cord for power source to Sub PCB



6. DISPLAY METHOD OF MASSAGE BLOCK TOTAL USE TIME AND OPERATION TIME

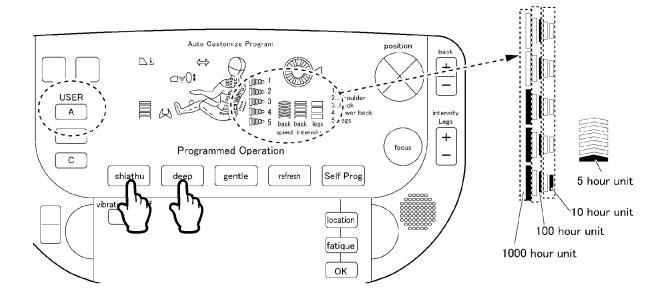
Adjustment of pressure sensor

First, keep the Massage mechanism block unloaded with pressure and move it upward halfway.

If the Massage mechanism block is at the highest or lowest position, you cannot arrange the pressure sensor correctly because the fabric becomes tense with pressure.

- 1. While pushing On/off button and the User program button B simultaneously, turn on the power switch and continue to hold the buttons for approximately 5 seconds. Release after the Focus button lights up.
- 2. Push the Focus button and automatically it lights off.

 Turn off the Power source switch and turn it on again, then the adjustment is finished.



Total use time & Display method

While pushing the Shiatsu button and the Deep button simultaneously, turn on the power switch and continue to hold the buttons for approximately 5 seconds. Release after the User program button A.

e.g. In the above case, 3000 + 500 + 10 + 5 = 3515 hours.

It is possible to indicate up to 5,995 hours. If the use time is less than 5 hours, 5 hour unit does not light up. If it is less than 10 hours, one 5 hour unit lights up.

Chart for reading each function use time

Button operation	Function for reading use time	LED display for confirming function
Shiatsu B	Intensity motor	₽.
Lateral	Width motor	⇔
Roll	Up/down motor	01
Тар	Tapping motor	€28
Shiatsu C	Shiatsu C pump	lλΩ
Regional	Shiatsu C valve	0;
Vibration	Vibration	B
Reclining upward	Reclining	
Reclining downward	Ottoman reclining	
Auto	Leg air operation	B .

7. MOTION OF THE CLUTCH AND BELT BASED ON VARIOUS MASSAGER OPERATIONS

Massager operation and belt motion

Belt Massage operation	Intensity adjustment belt	Massage belt	Tapping belt	Up/down belt
Shiatsu, Swedish, Kneading	×	0	×	×
Kneading and rolling	×	0	×	0
Rolling	×	×	×	0
Tapping	×	×	0	×
Tapping and rolling	×	×	0	0
Width adjustment	×	0	×	×
Intensity adjustment	0	0	X	×

^{○ :} Power is transmitted to the shaft.

Massager operation and clutch motion

Clutch Massage operation	Intensity clutch	Massage clutch	Tapping clutch	Up/down clutch
Shiatsu, Swedish, Kneading	×	0	×	×
Kneading and rolling	×	0	×	0
Rolling	×	×	×	0
Tapping	×	×	0	×
Tapping and rolling	×	×	0	0
Width adjustment	×	0	×	×
Intensity adjustment	0	×	×	×

○ : Electrically ON× : Electrically OFF

8. CONTROL OF THE AIR-MASSAGE OPERATION

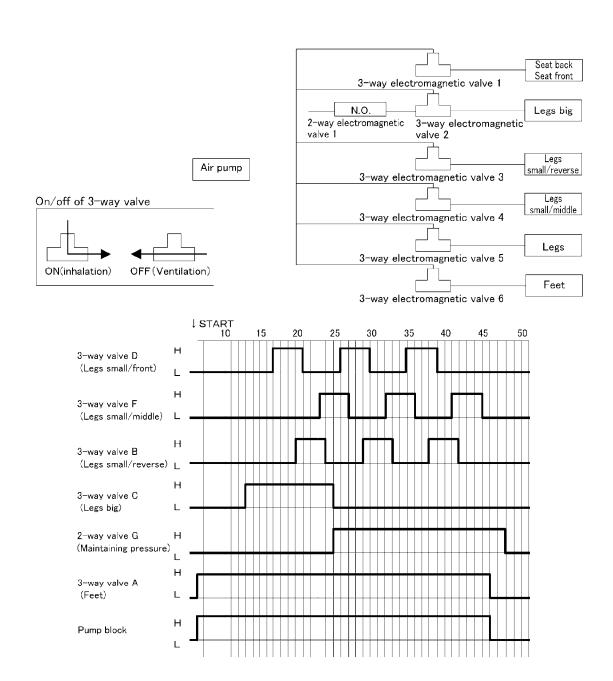
 $[\]times$: Power is not transmitted to the shaft.

^{*}Idling: Although the pulley is rotating, power is not transmitted to the shaft.

Air massage functions with the operations of the pump unit x 1pc, 3-way electromagnetic valve x 1pc, and 2-way electromagnetic valve x 2pcs.

- 1. Air massage is operated by the pump and electromagnetic valves.
- 2. When not in operation, all the pump and the electromagnetic valves are in Off position.
- 3. When the Reclining lift motor and the Ottoman lift motor are in operation, the control of air is stopped. (Electromagnetic is Off. In ventilation.)
- 4. When you operate the electric reclining lift or the electric Ottoman lift while you operate On/off button or it is in waiting mode, stop the operation of the pump. (The pressure of electromagnetic valves are maintained.) And after the operation stop(retracting mode) from the retracting mode and stop mode, or after electric reclining lift or electric Ottoman lift stop in the waiting mode, air massage stops in 5 seconds.

^{*}After the 3-way electromagnetic valve of Legs big turns Off, turn On the 2-way electromagnetic valve and maintain the pressure of Legs big.

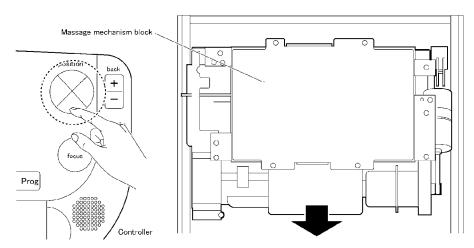


9. MASSAGER UP/DOWN SENSOR GEAR ADJUSTMENT METHOD

When the massager is removed from the chair, the position of the up/down sensor gear changes, resulting in a change of the up/down stop position.

When installing the massager on the back frame, be sure to adjust the position with the up/down detection gear.

- Up/down sensor gear position adjustment procedure
- 1. Before mounting, the massager on the back frame must be moved down to the lowest position by setting the controller manual operation MASSAGE HEAD ADJUSTMENT button to DOWN.
- 2. Install Rail pieces (left/right) and screw them with each three screws.



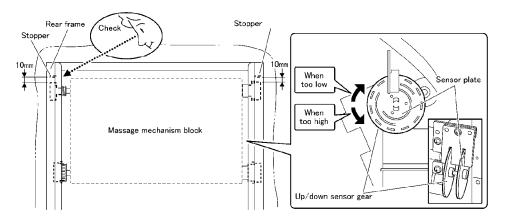
- 3. Make sure that the massager has been mounted horizontally by moving the massager.
 - *Unless the massager has been mounted horizontally, an abnormal sound or problem may occur.
- 4. Move it up to the highest position (until the massager stops) by setting the controller manual operation MASSAGE HEAD ADJUSTMENT button to up.
- 5. Peeping into the square hole of the back frame, check the position of the massager to adjust.
 - *One thread of the up/down detection gear gives a stroke change of 4mm.

When the massager has been raised excessively: Turn the up/down sensor gear counterclockwise to adjust.

When the massager has been lowered excessively: Turn the up/down sensor gear clockwise to adjust.

*When adjusting the up/down position, hold the 'Gear' and adjust it. (Do not touch the detector board.)

- 6. While adjusting the distance between the square hole and Guide roller assy. to 10mm, check by using the up/down adjustment button found on the manual operation panel of the controller.
- 7. Using the manual operation of the controller, conduct the rolling operation.

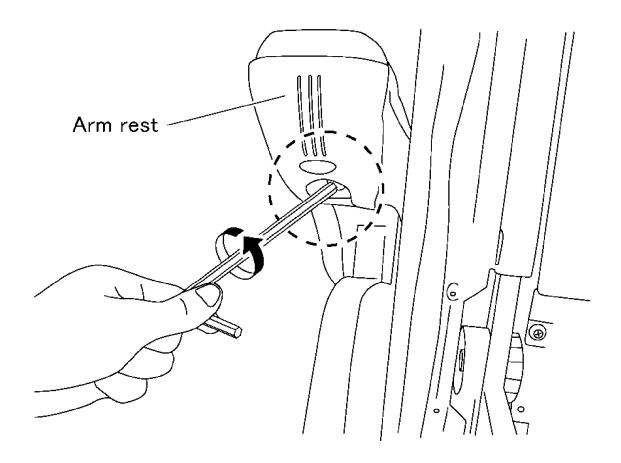


10. DISASSEMBLY AND ASSEMBLY INSTRUCTION

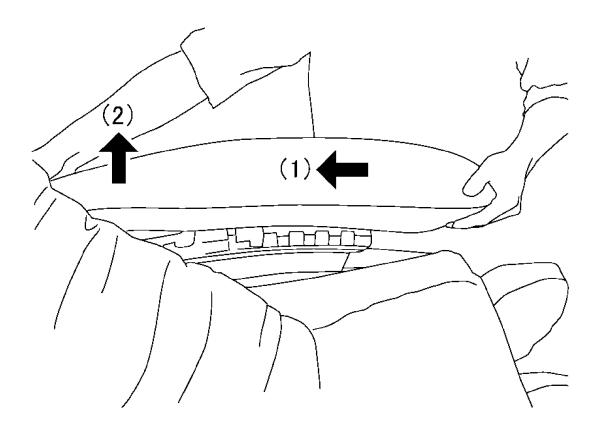
10.1. Removing the Arm rest and the Controller stand

10.1.1. Removing the Arm rest

1. Unscrew a hex screw (4mm) on the bottom of the Arm rest.



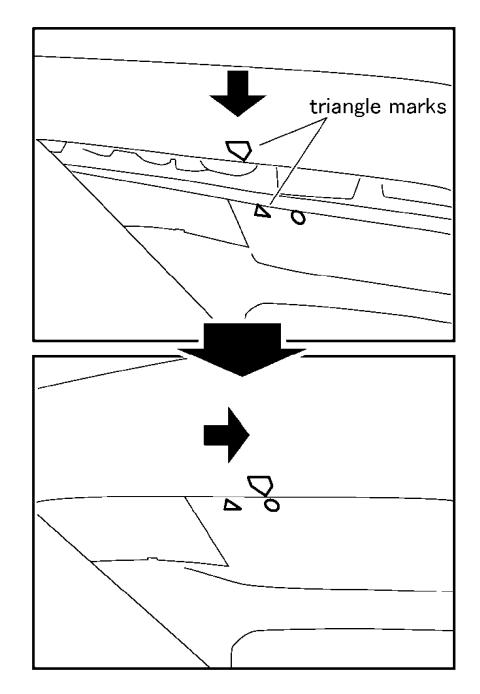
2. Pull the Arm rest backward(1) and pull it up(2) and take it away.



3. You can remove both Arm rests.

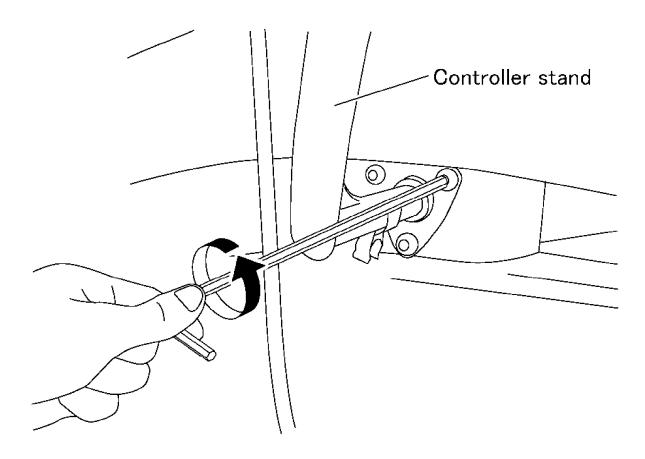
Tips of installing

Insert the Arm rest to the Arm rest holder so that both triangle marks meet each others, and pull the Arm rest forward to lock.



10.1.2. Removing the Controller stand

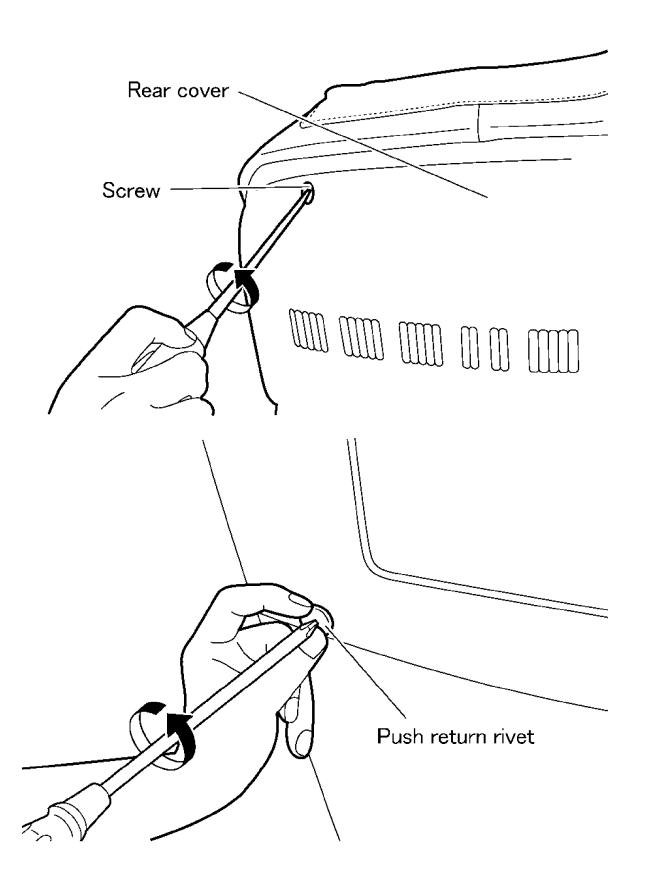
1. Take off the Controller, and unscrew three Hex screws(4mm) of the Controller stand.



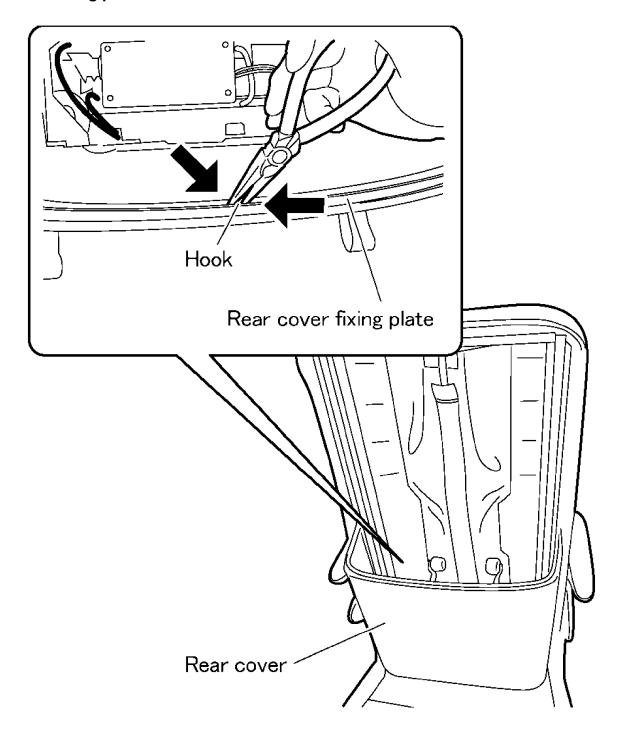
10.2. Removing the Outside covers

10.2.1. Removing the Rear cover

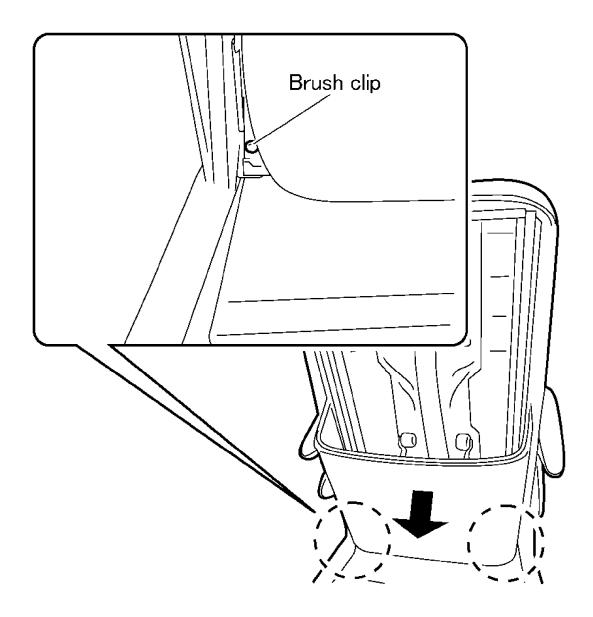
1. Unscrew two screws at the top of the Rear cover top and two Push return rivets, and pull it off.



2. Take off the hook with nippers, which fixes the Rear cover bottom and the Rear cover fixing plate.

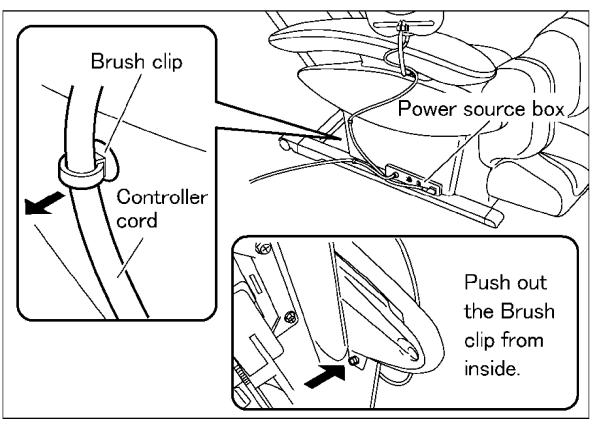


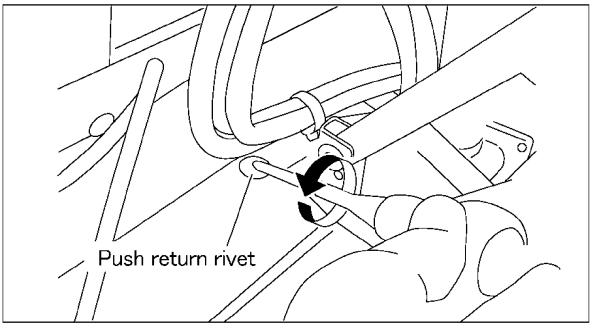
3. Take off two Brush clips on the Rear cover bottom and pull it off.

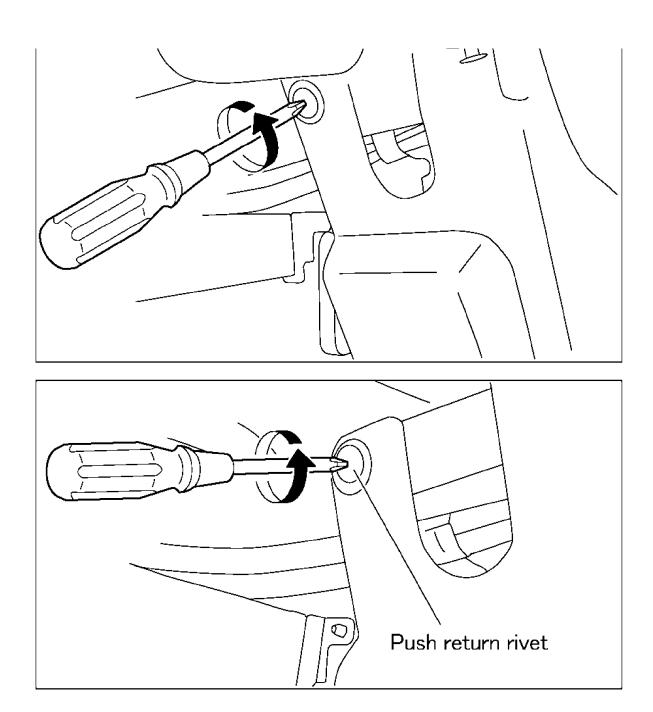


10.2.2. Removing the Under cover

1. Take off 8 push-return-rivets fixing Under cover left/right and one brush clips (for Under cover right.)

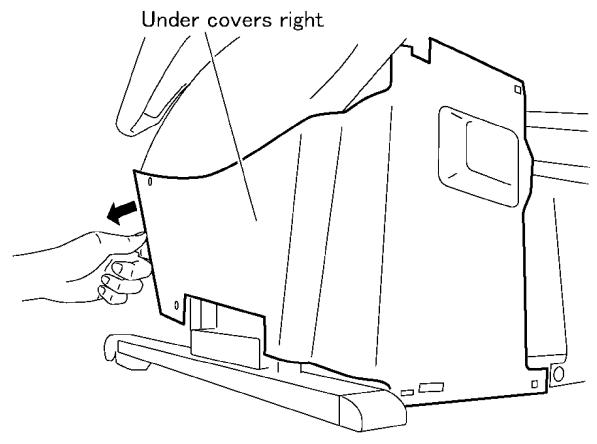






2. Take off the Under covers right/left.

*When you take off the Under cover right, first take off the parts around the Power source box.

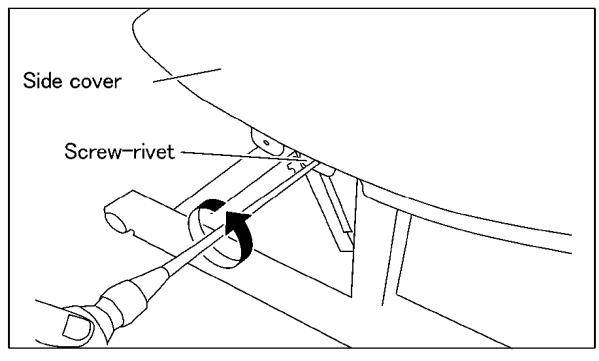


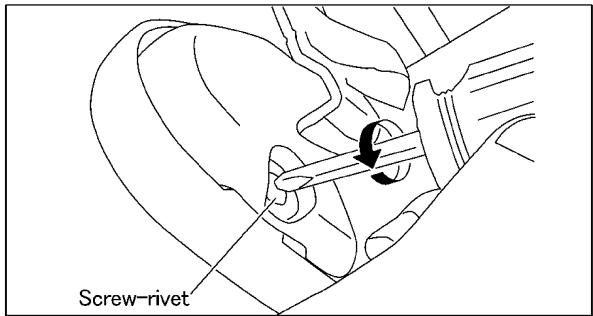
Caution when installing

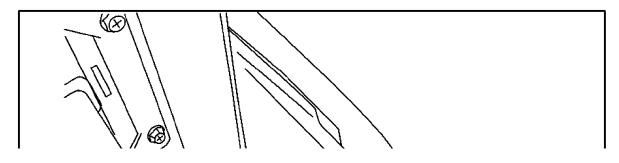
When installing the Under covers, be sure to confirm that the Under covers do not pull or crush the Air hoses, and move the Ottoman to confirm that the Ottoman does not pull anything.

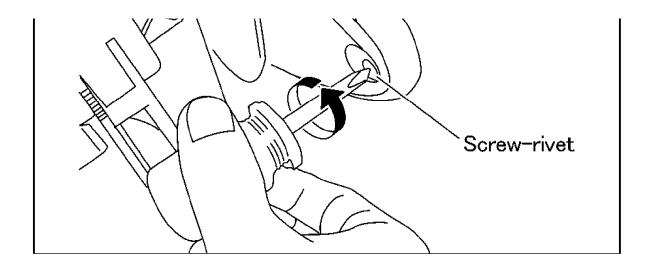
10.2.3. Removing the Side cover

- 1. Follow the procedure 10.2.1 Removing the Rear cover and 10.2.2. Removing the Under cover.
- 2. Unscrew three srew-rivets.





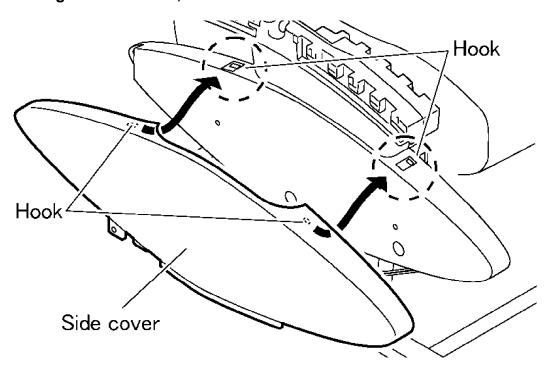




3. Unhook two hooks on the top of the Side cover and take off the Side cover.

Caution

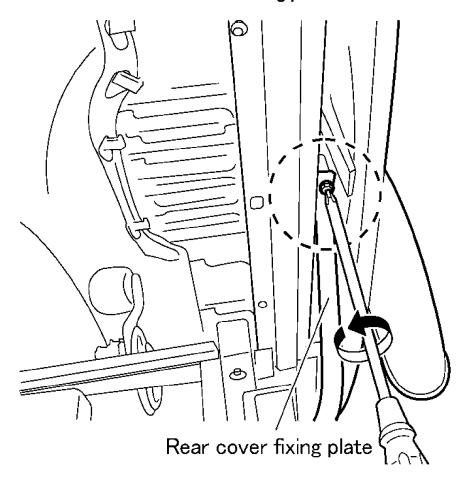
When installing the Side cover, first hook two hooks and then screw screw-rivets.



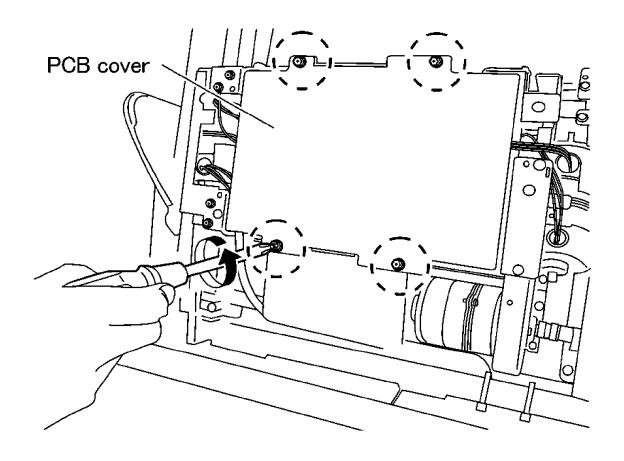
10.3. Removing the Massage mechanism block

Move the Massage mechanism block to the lowest position by the Upward button. Be sure to lean the Massage chair on chairs or desk so that the work will be easy.

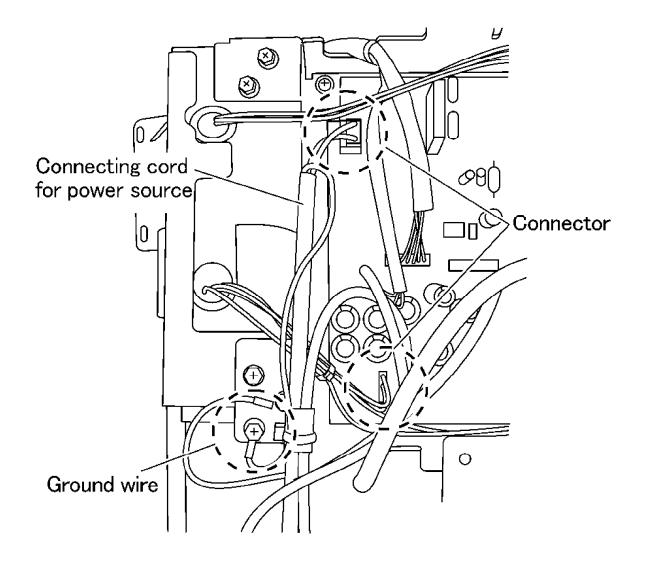
1. Unscrew four screws on the Rear cover fixing plate.



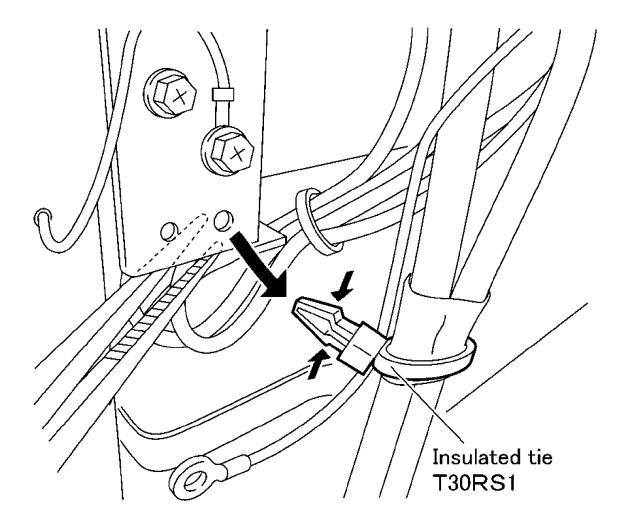
2. Unscrew four screws of the PC board and remove the PCB cover.



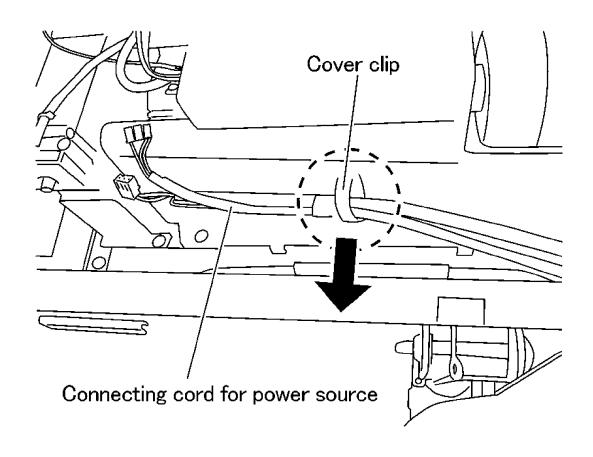
3. Unscrew a screw fixing the ground wire and disconnect two connectors.



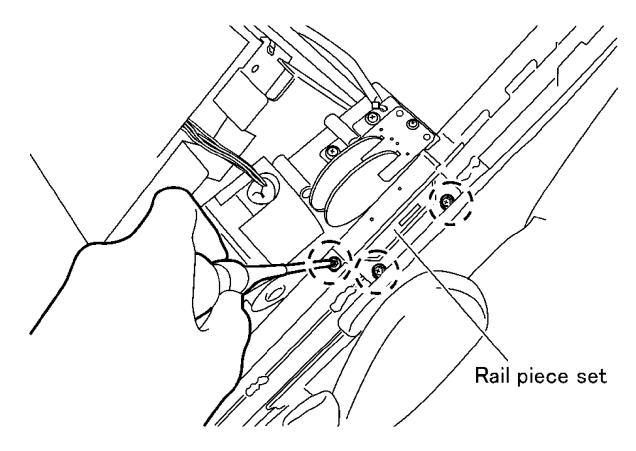
4. Pinch the hook of the Insulated tie and remove it.



5. Remove the Connecting cord for power source from the Cover clip.

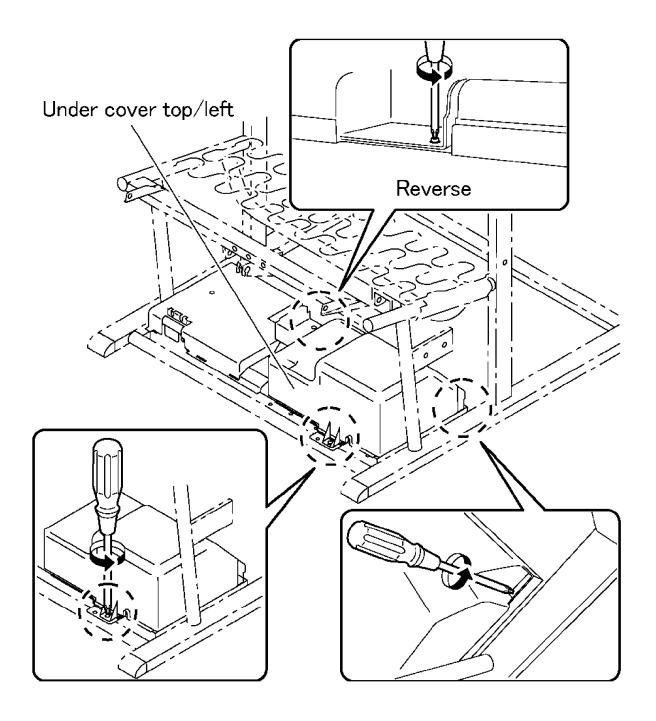


6. Remove Rail piece set at both sides.

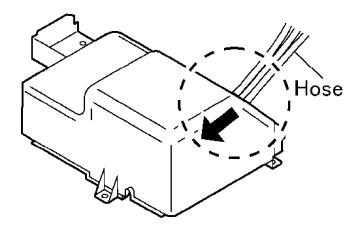


10.4. Removing the Under box and the Under box cover

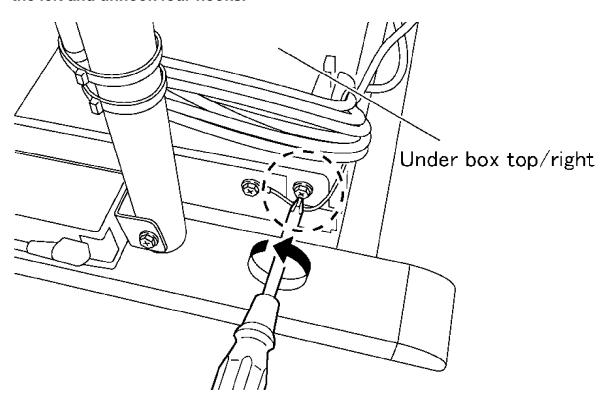
- 1. Follow the procedure 10.2.1 Removing the Under cover.
- 2. Lift the Ottoman and put it on some desk and unscrew three screws on the Under box top/left and float the Under box top/left.

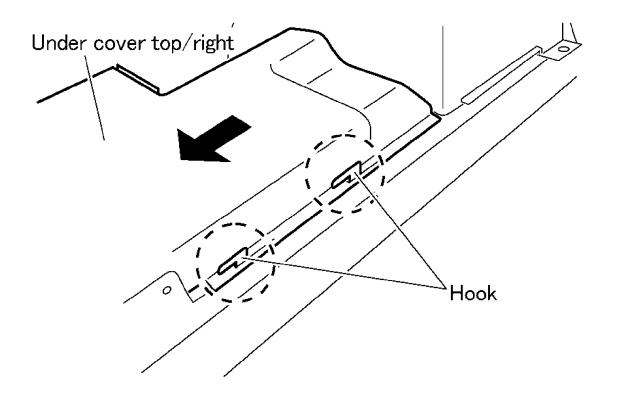


3. Disconnect five Ottoman hoses going through the hole on the Under box top/left and take off the Under cover box top/left.

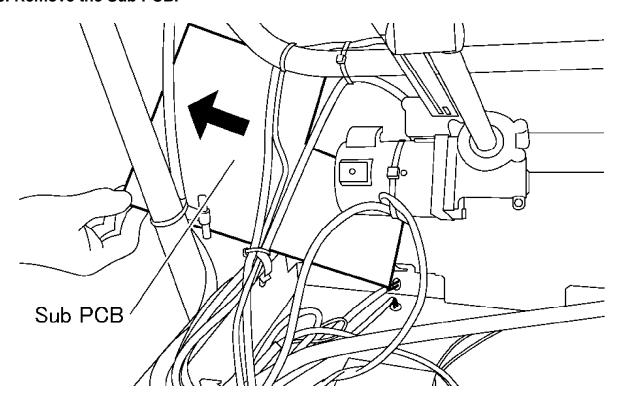


4. Unscrew a screw on the Under box top/right and slide the Under box top/right to the left and unhook four hooks.





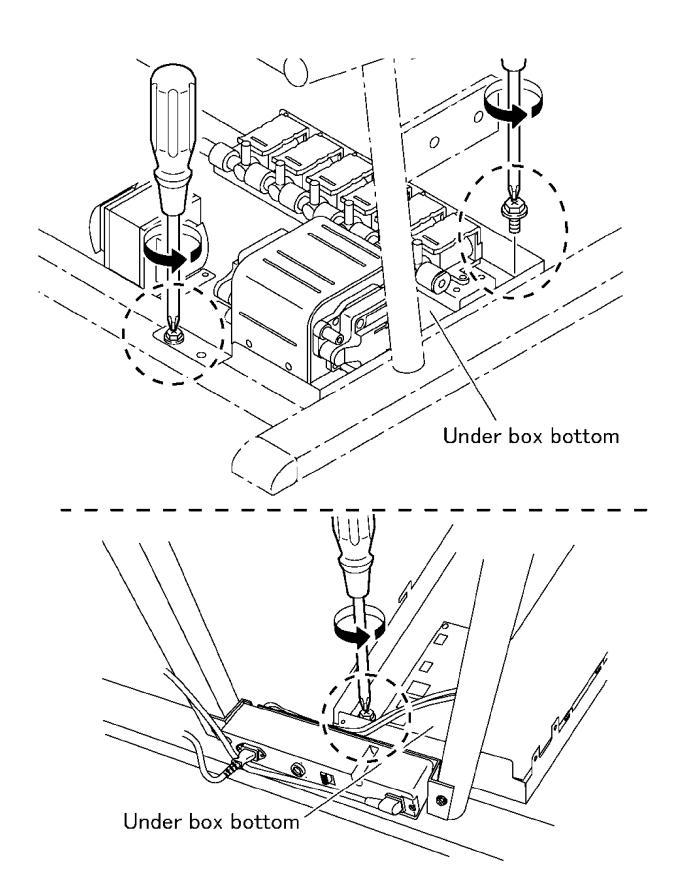
5. Remove the Sub PCB.



6. Unscrew three screws on the Under box and pull out the Under box.

Be careful how Ottoman hoses are going out.

Be sure that all hooks are hooked.



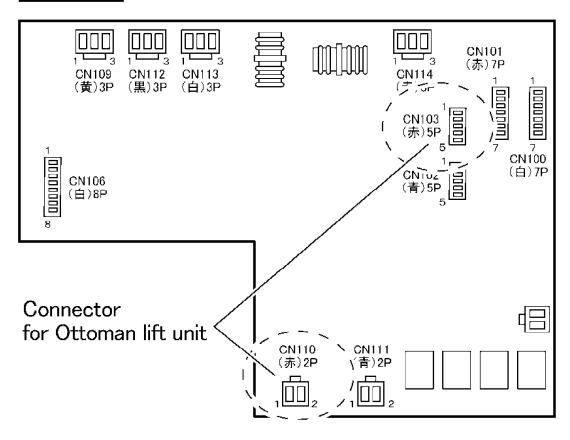
10.5. Removing the Lift units

10.5.1. Removing the Ottoman lift unit

- 1. Follow the procedure 10.3 Removing the Massage mechanism block.

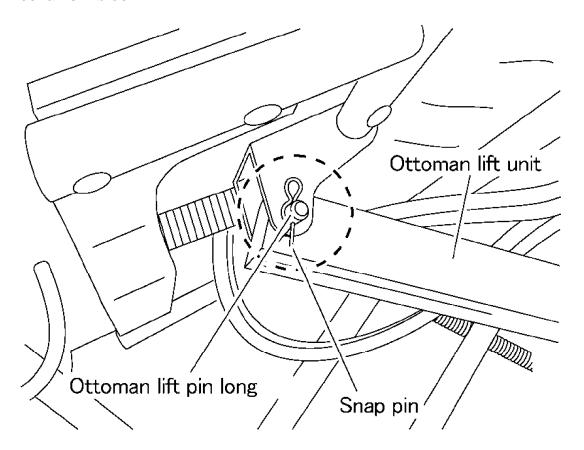
 *It is safer to unload the Massage mechanism block.
- 2. Follow the procedure 10.3 Removing the Under cover.
- 3. Follow the procedure 10.4 Removing the Under box and the Under box cover 1 to 4, and disconnect the connectors red(CN103- CN110) connecting to the Sub PCB.

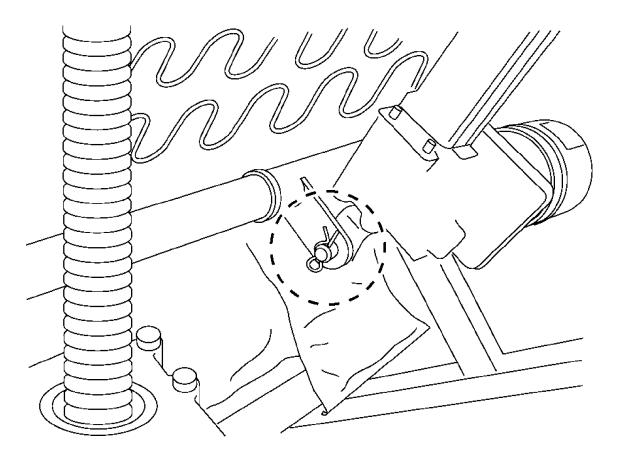
Sub PCB



4. Remove the Ottoman lift pin long and the Snap pin, and remove the Ottoman lift

unit.
*It would be easy to remove the Ottoman lift unit if you unload the Massage mechanism block.

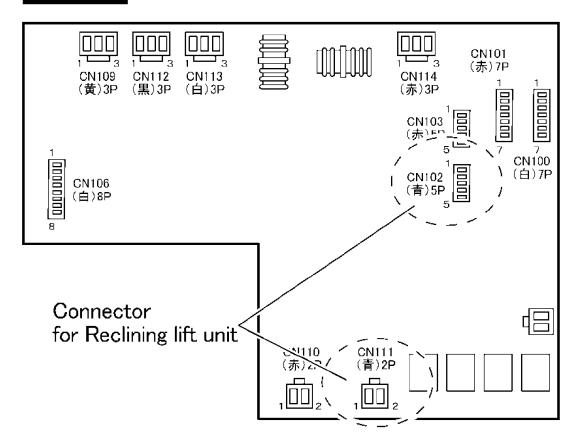




10.5.2. Removing the Reclining lift unit

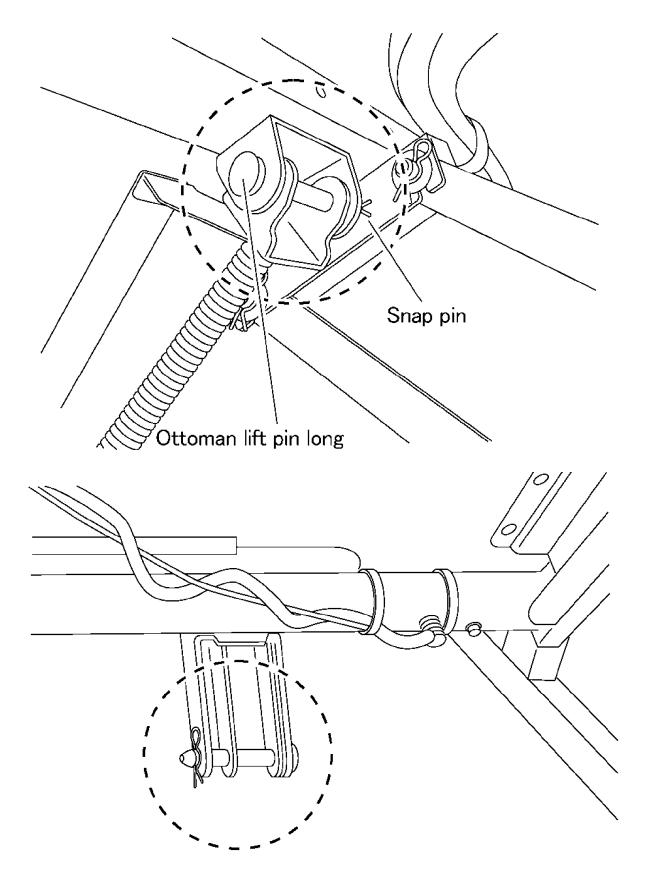
- 1. Follow the procedure 10.3 Removing the Massage mechanism block.
 *It is safer to unload the Massage mechanism block.
- 2. Follow the procedure 10.3 Removing the Under cover.
- 3. Follow the procedure 10.4 Removing the Under box and the Under box cover 1 to 4, and disconnect the connectors blue(CN102- CN111) connecting to the Sub PCB.

Sub PCB



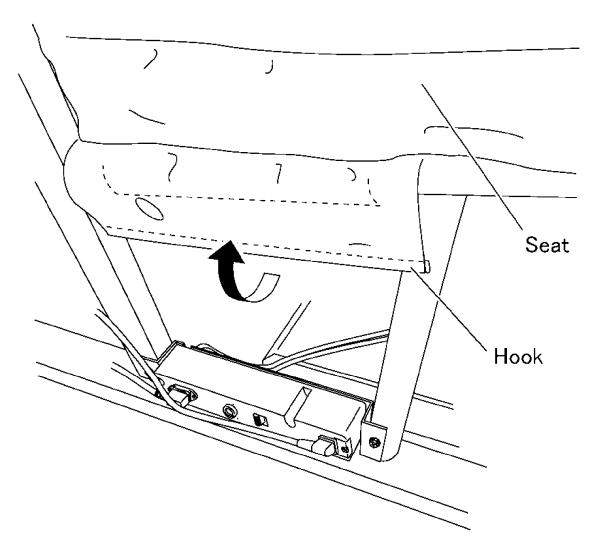
4. Remove the Ottoman lift pin long and the Snap pin, and remove the Reclining lift unit.

*It would be easy to remove the Reclining lift unit if you unload the Massage mechanism block.

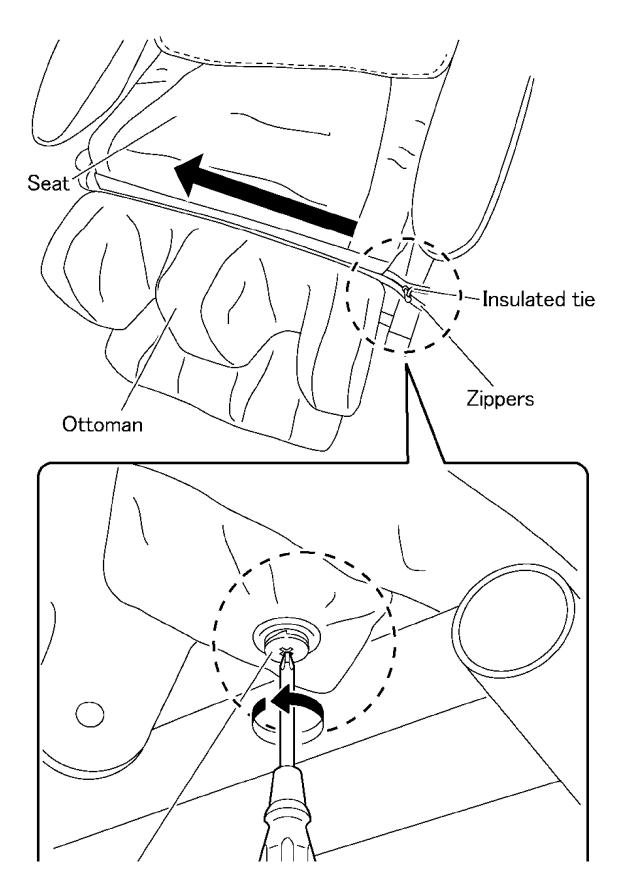


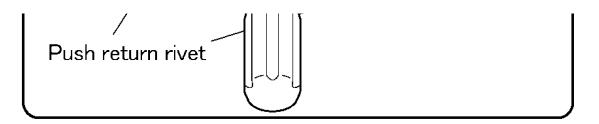
10.6. Removing the Seat

- 1. Follow the procedure 10.2.1 Removing the Rear cover, 10.1.1 Removing the Armrest, and 10.2 Removing the Outside covers.
- 2. Unhook the hooks at both sides of the Seat.



3. Cut off the Insulated tie and unzip the zippers of the Seat and the Ottoman and unscrew one each Push return rivets on both sides, and take off the Seat.

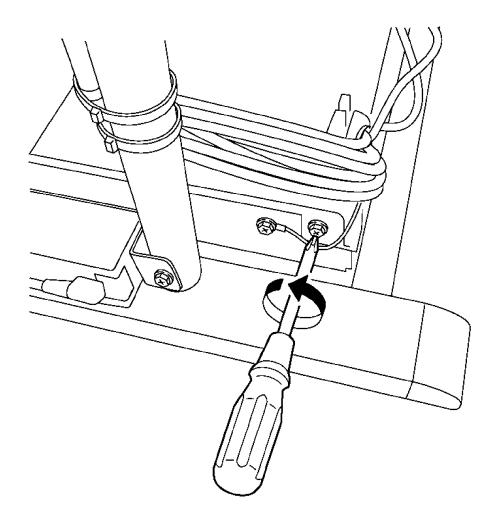




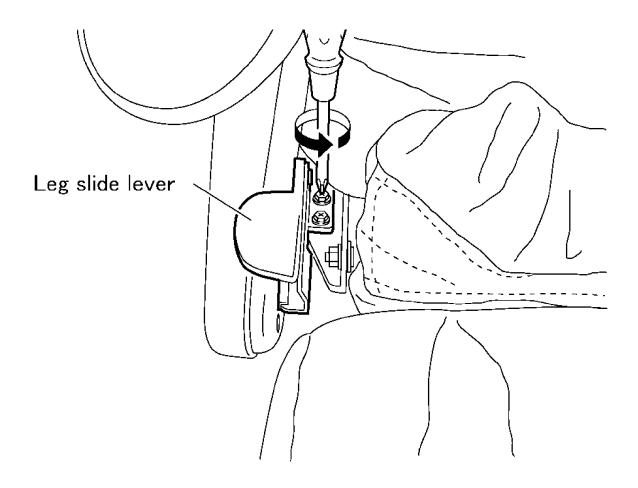
10.7. Removing the Air Ottoman

10.7.1. Removing the Air Ottoman

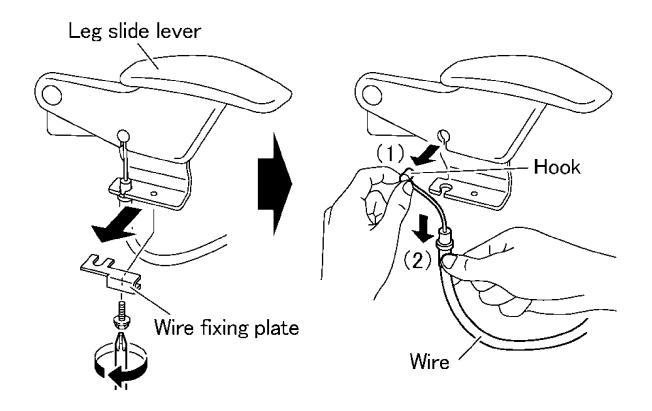
- 1. Follow the procedure 10.4 Removing the Under Cover.
- 2. Follow the procedure 10.6 Removing the Seat 3 and unzip the zippers and the Push return rivet of the Seat and the Ottoman.
- 3. Follow the procedure 10.4 Removing the Under box.



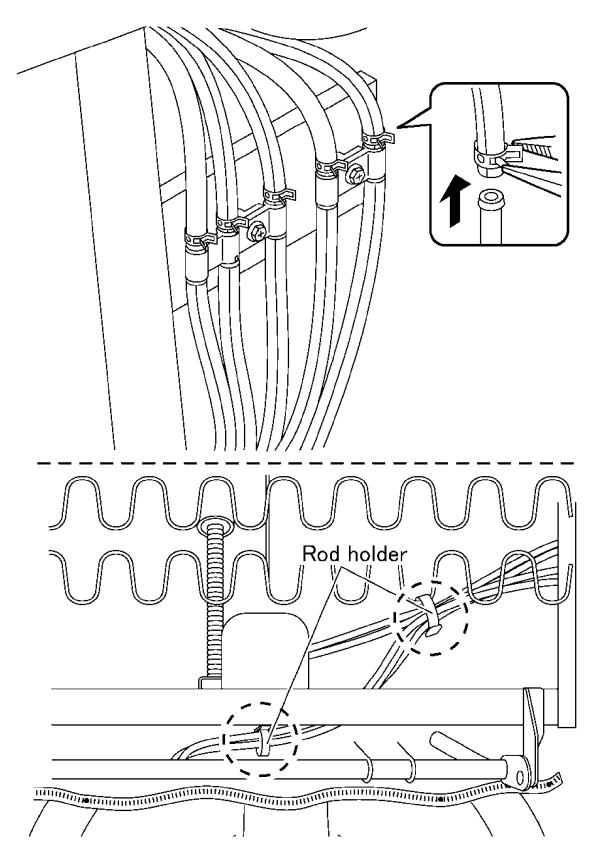
4. Unscrew two screws and take off the Leg slide lever from the Under pipe.

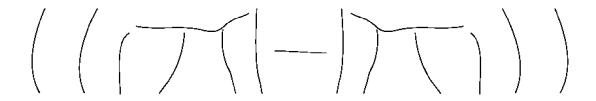


- 5. Unscrew a screw and take off the Wire fixing plate.
- 6. Unhook the hook of the wire from the Leg slide lever and pull off the wire.



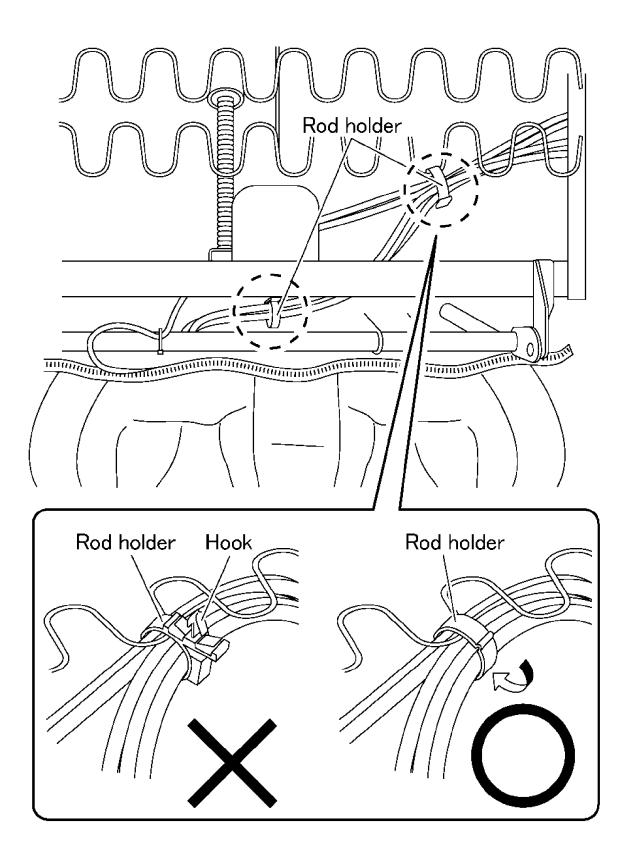
7. Move the Hose clamps and pull off the Hoses and take off the two Rod holders.



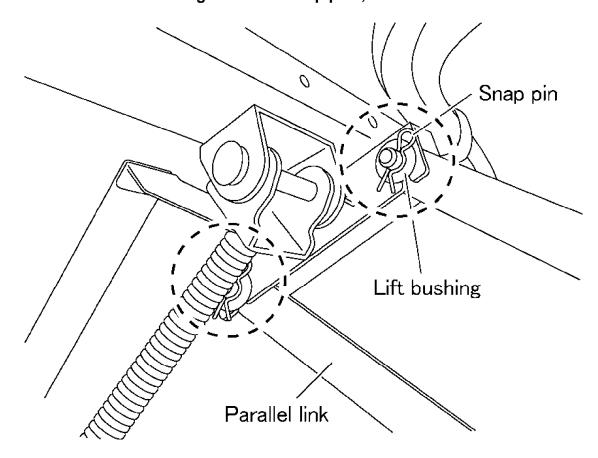


Caution when installing

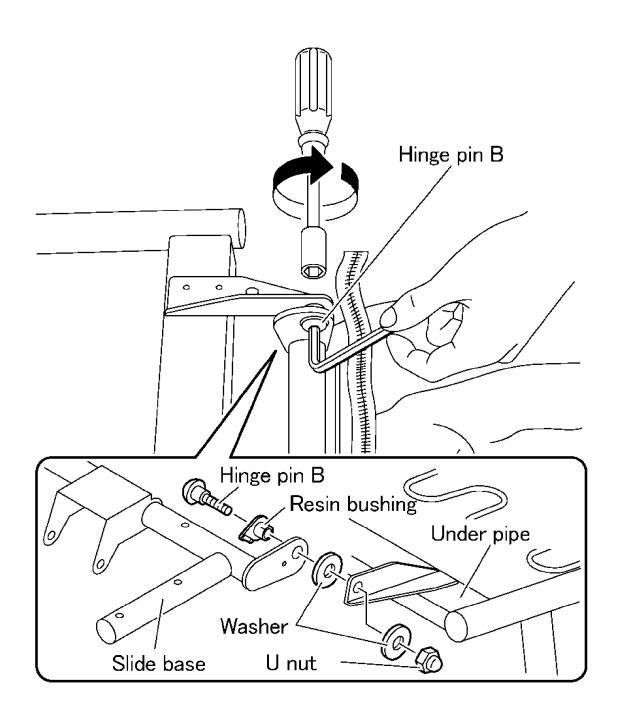
Be sure not to make the hook side of the Rod holder face the Seat, which might cause the tear.



8. Remove four Lift bushings and four Snap pins, and take off the Parallel link.



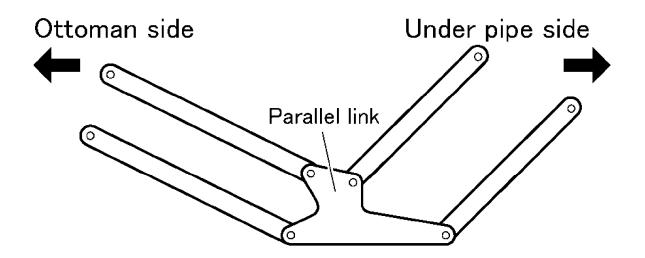
9. Take off the left/right Hinge pin Bs, Washers, and U nuts, and you can take off the Ottoman.

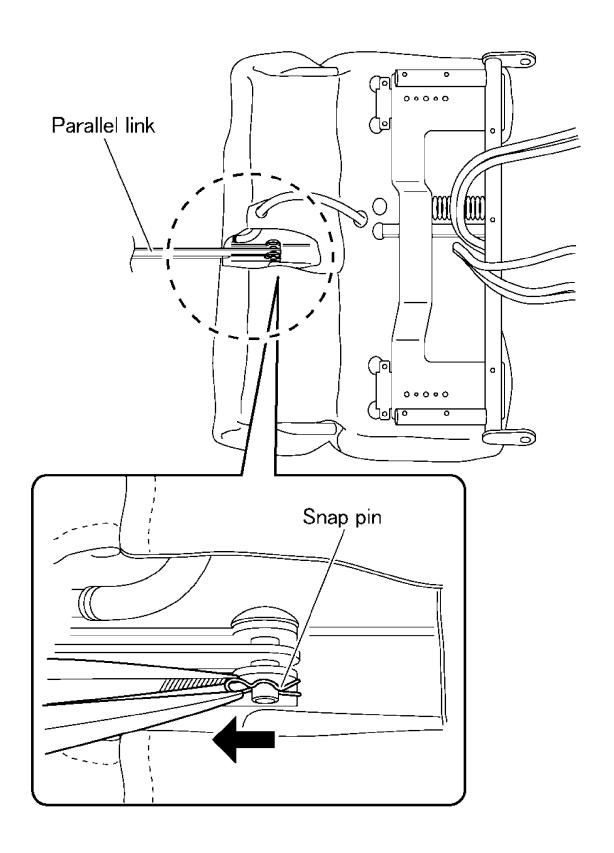


10. Pull out the Snap pin from the Ottoman and remove the Parallel link.

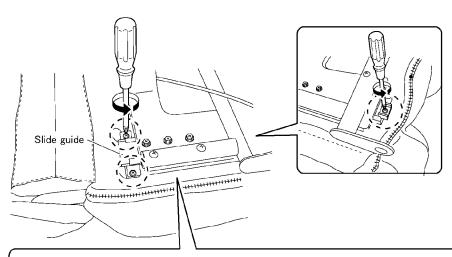
Caution when installing

Be careful of the directions when installing the Parallel link.



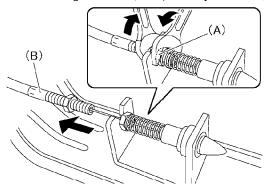


11. Unscrew three screws each at both sides of the Slide guide.

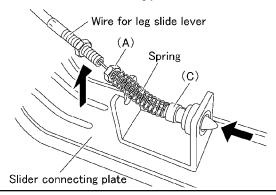


How to remove the Wire for leg slide lever

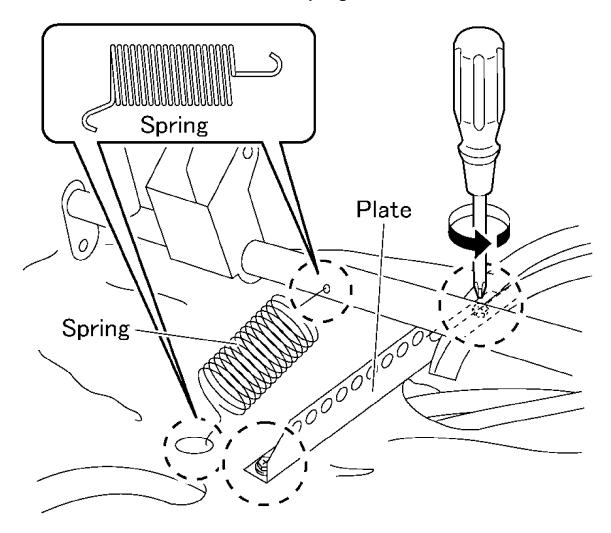
1.Turn the Hex nut(A) on the Leg slide lever, and pull away the bar(B) as the figure.



2.Remove the Hex nut spring(A) from the ditch, and move the (C) to the arrow and remove the Wire for leg slide lever from the Slider connecting plate.

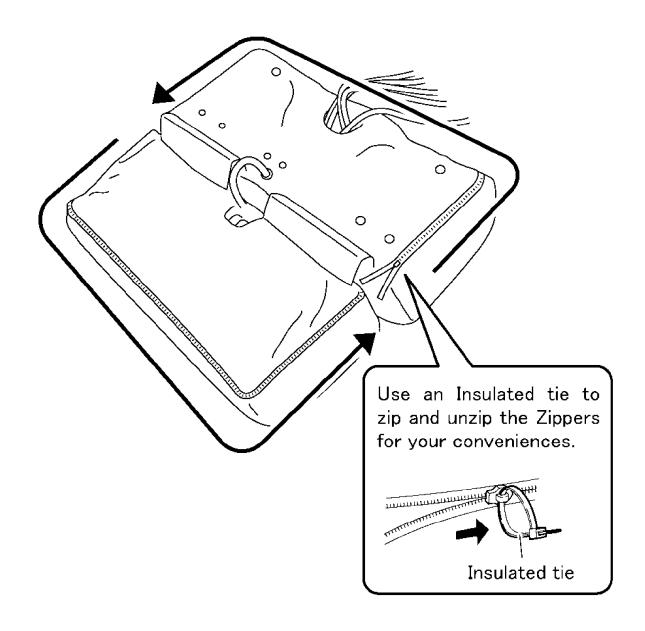


12. Unscrew two screws and remove the Spring.

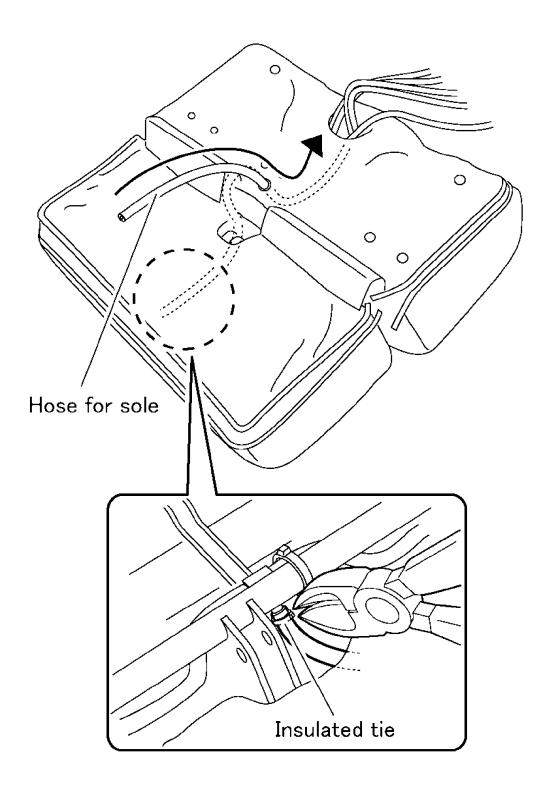


10.7.2. Removing the Air Ottoman fabric

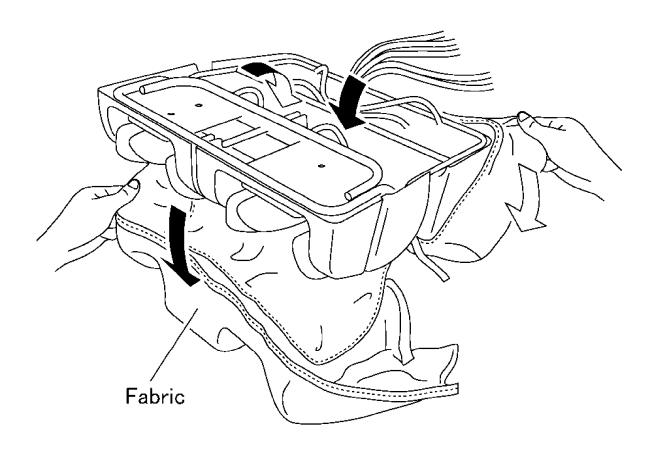
- 1. Follow the procedure 10.7.1 Removing the Ottoman.
- 2. Unzip the Zippers(two) of the bottom of the Air Ottoman.



3. Cut off the Insulated tie on the Hose for sole, and pull off the Hose from the fabric.

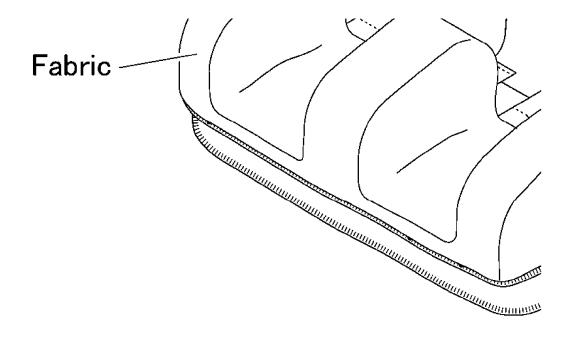


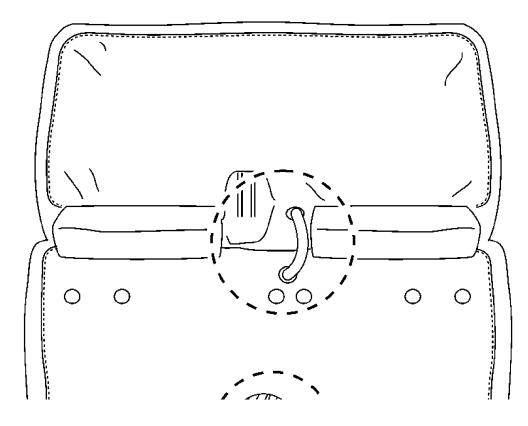
4. Remove the Fabric.

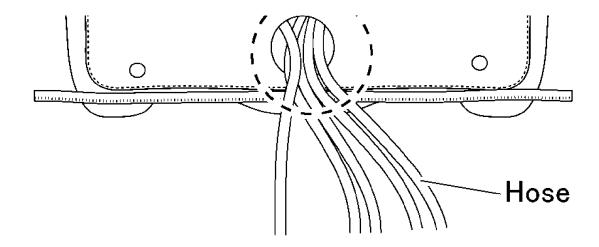


Caution when installing

*Be careful of the hole of the Fabric in which the Hose goes in when installing the Fabric.

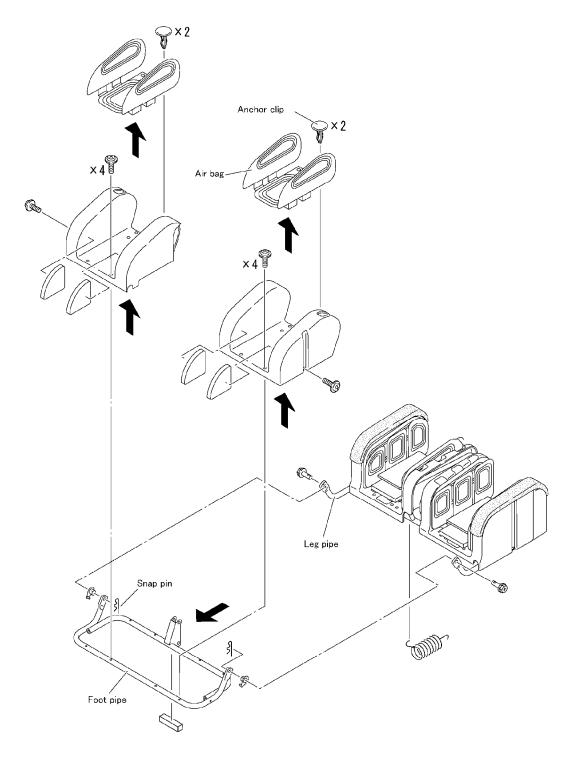




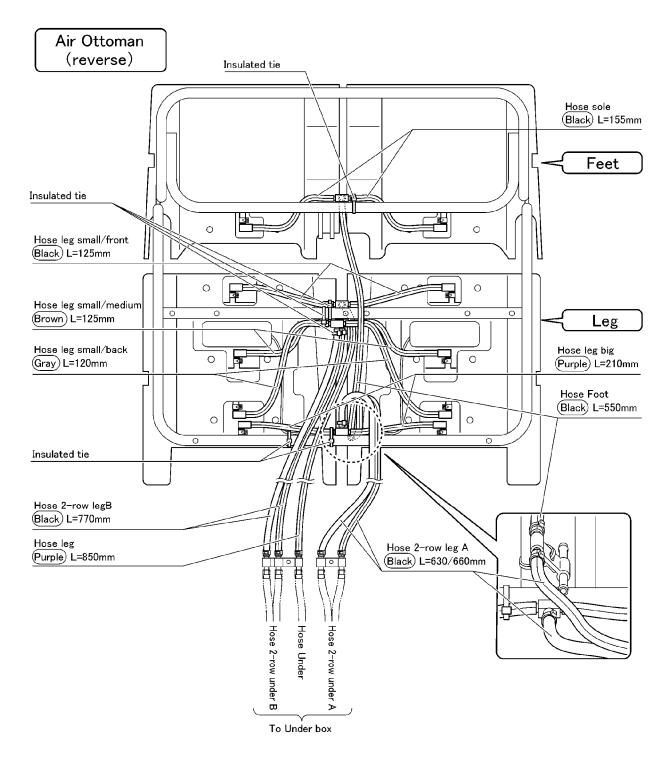


10.7.3. Removing the Air Ottoman inside (Air bags, Hoses)

- 1. Follow the procedure 10.7.1 Removing the Air Ottoman and the procedure 10.7.2 Removing the Air Ottoman fabric.
- 2. Cut off all the Insulated ties binding Hoses.
- When installing the Insulated ties, refer to the 10.7.4 Air Ottoman hoses.
- 3. Remove the Hinge pin minis and the Snap pins of the Leg pipe and the Foot pipe.
- 4. Remove the Anchor clips of the Air bags and remove Air bags.



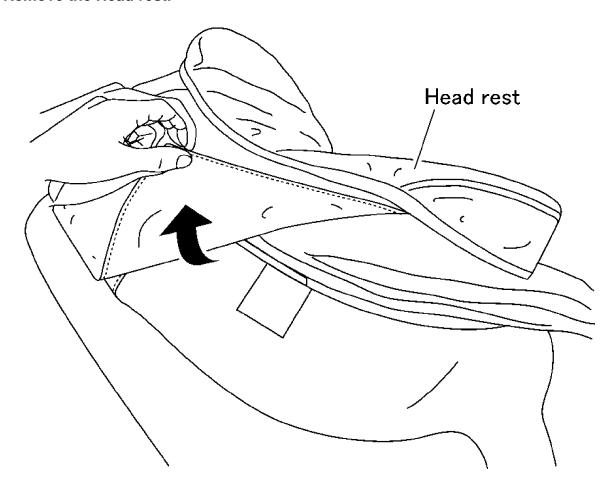
10.7.4. Air Ottoman hoses



10.8. Removing the Head rest, Back cushion, and Massage wheel cover

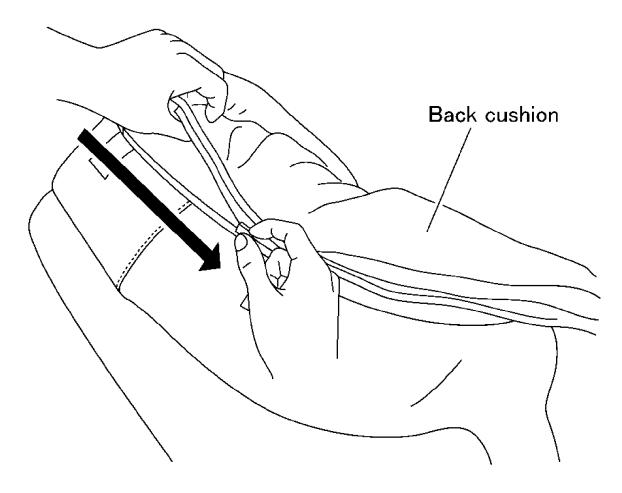
10.8.1. Removing the Head rest

1. Remove the Head rest.



10.8.2. Removing the Back cushion

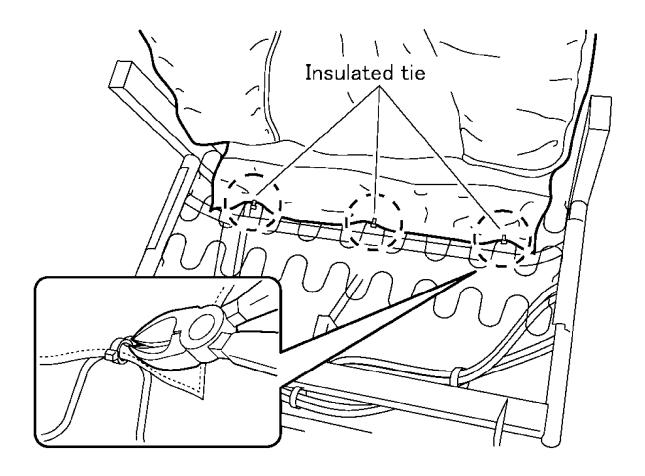
1. Unzip the Zippers and remove the Back cushion.



10.8.3. Removing the Massage wheel cover

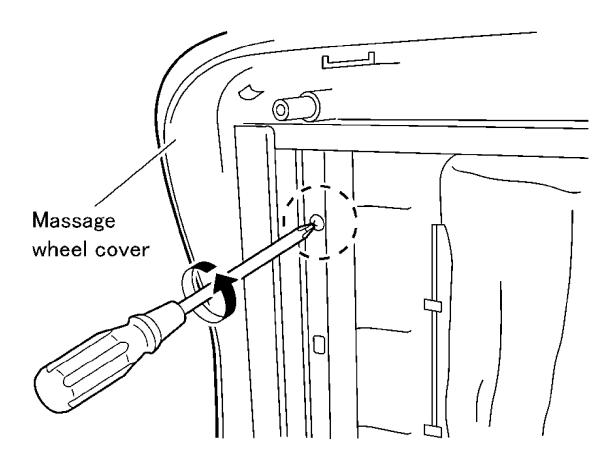
*You can work without unloading the Massage mechanism block.

- 1. Follow the procedure 10.2.1 Removing the Back cover.
- 2. Cut off the three Insulated ties on the Seat panel.



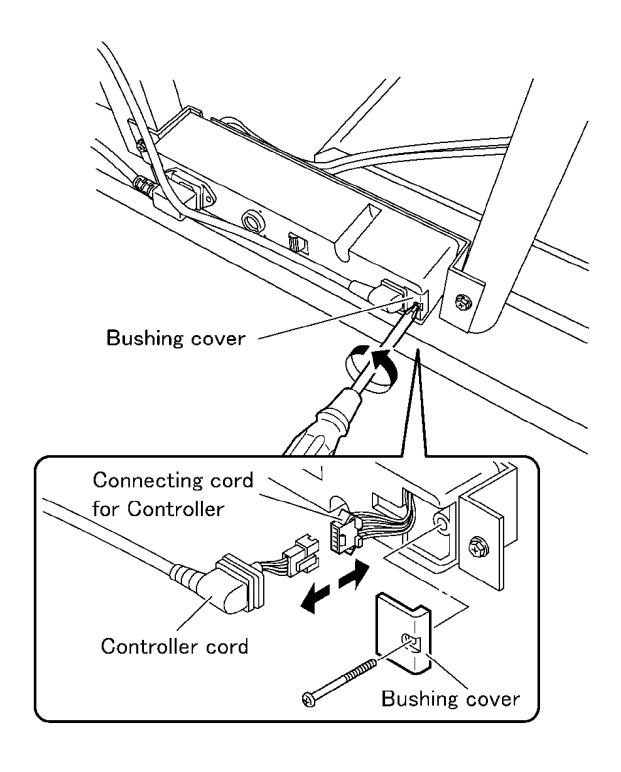
3. Unscrew eight screws on the Massage wheel cover and remove the Massage wheel cover.

^{*}Move the Massage mechanism block up and down and unscrew screws.

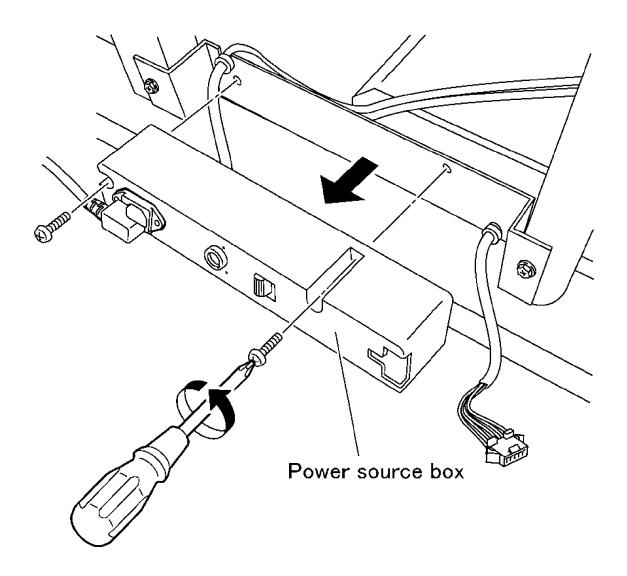


10.9. Removing the Power source box

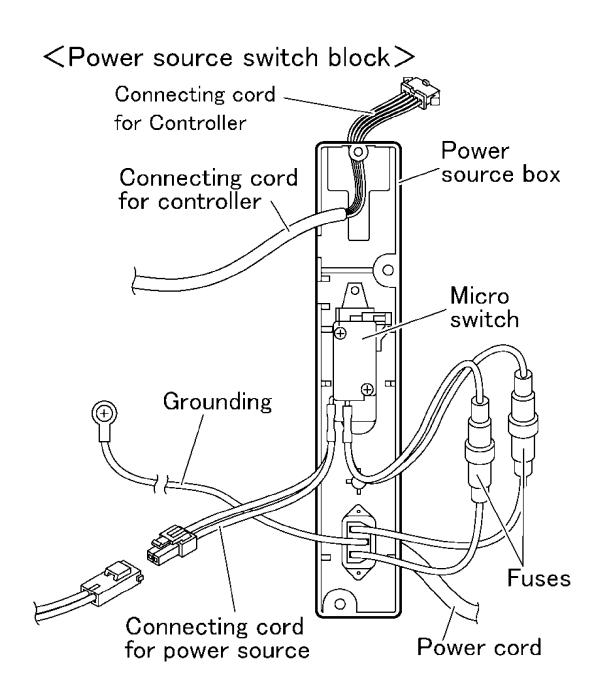
- 1. Unscrew a screw and remove the Bushing cover. Pull out the Controller cord and disconnect the Connector and you can remove the Controller block.
 - *Use a screwdriver so as not to break the screw head.



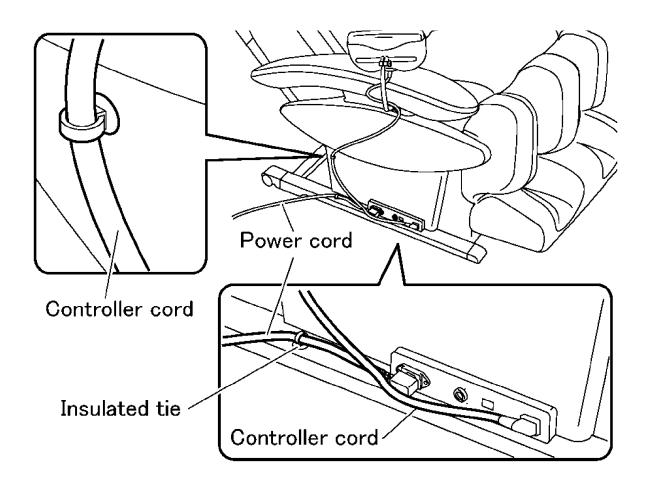
2. Unscrew two screws and remove the Power source box.



3. Micro switch, Fuses, Power cord, and switch can be removed.
*Be careful not to break the screw heads.

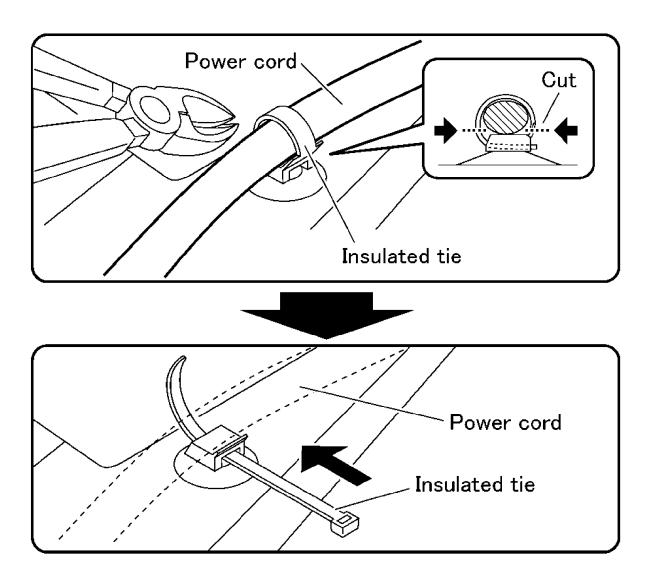


Caution when installing Controller cord and Power cord Refer to the figure when installing cords.



Caution when removing and installing the Power cord

Cut the Insulated time at two parts as the figure and use the new Insulated tie and fix the Power cord.



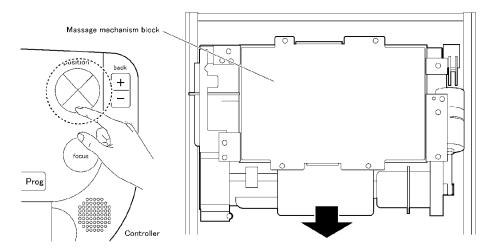
10.10. Adjustment of the Up/down sensor gear

When the Massage mechanism block is removed from the chair, the position of the Up/down sensor gear changes resulting in a change of the up/down stop position. When installing the Massage mechanism block on the back frame, be sure to adjust the position with the Up/down sensor gear.

*Up/down sensor gear position adjustment procedure

To make an adjustment, refer to the Massage mechanism block removing method (the back frame is tilted from the chair).

1. Before mounting, the Massage mechanism block on the back frame must be moved down to the lowest position by setting the controller manual operation massage head adjustment button to Down.



- 2. Make sure that the Massage mechanism block has been mounted horizontally by moving the Massage mechanism block to the position shown in the figure. Unless the Massage mechanism block has been mounted horizontally, an abnormal sound or problem may occur.
- 3. Move it up to the highest position (until the massager stops) by setting the controller manual operation

 Massage head adjustment button to up.
- 4. Peeping into the square hole of the back frame, check the position of the massager to adjust.

*One thread of the up/down detection gear gives a stroke change of 4mm.

When the massager has been raised excessively: Turn the up/down detection gear counterclockwise to adjust.

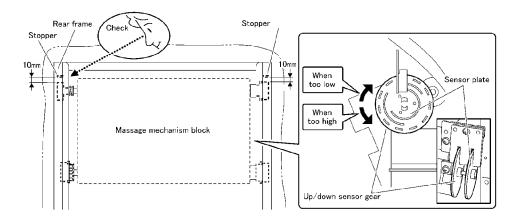
When the massager has been lowered excessively: Turn the up/down detection gear clockwise to adjust.

While adjusting the distance between the square hole and Guide roller assy. to 10mm, check by using the up/down adjustment button found on the manual operation panel of the controller.

5. Install the rail piece A and B, and tighten uniformly the set screws (left and right,

3 pcs. each).

6. Using the manual operation of the controller, conduct the rolling operation. Set the massage heads adjustment switch to level 1, and check the up/down stroke.



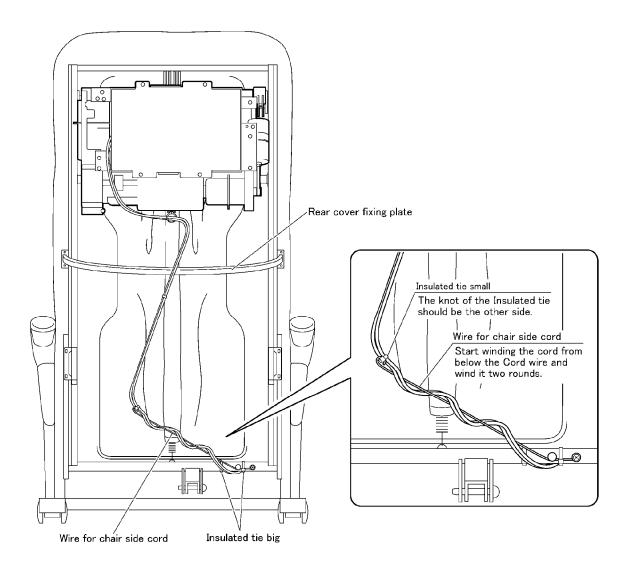
10.11. Installing the Connecting cord for power source

Move the Massage mechanism block to the highest position.

*After installing each Connecting cords, be sure to confirm that each Connecting cords do not touch belts or Rear cover fixing plate or being stuck in the gear by operating the Up/down button in the controller manual mode. Also confirm that each Connecting cords are not extremely tense at the highest position.

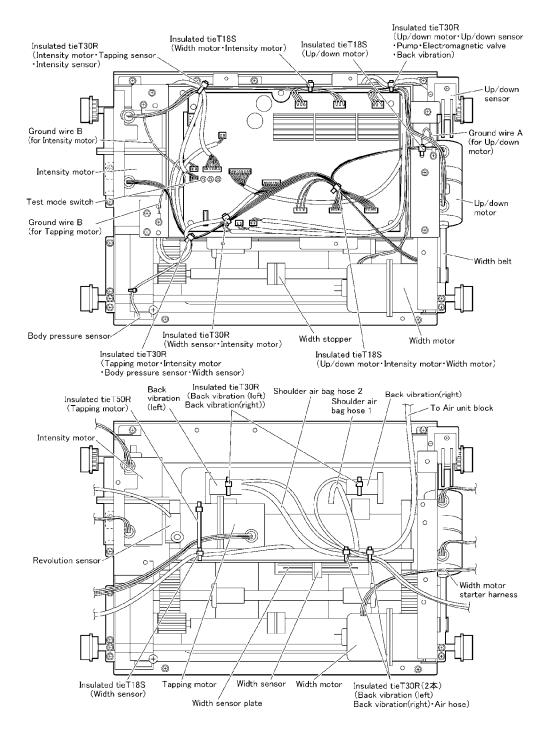
Caution

After moving the Massage mechanism block to the highest position, install the Rear cover so as to avoid each Connecting cords being stuck. Wind the cords around the Wire.



10.12. Lead wires of Massage mechanism block

Refer to the following figure for the fixing of the Main PCB, motors, sensors, parts, and Insulated ties.



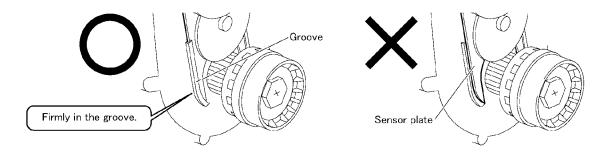
10.13. Assembly and disassembly of Massage mechanism block

10.13.1. Removing the Up/down sensor

- 1. Disconnect the Connector (CN206)(1) on the Main PCB.
- 2. Cut off the Insulated tie medium (2) of the lead wires.
- 3. Unscrew two installation screws (3) of the Up/down gear box B and the Up/down sensor plate and remove the Up/down sensor.

Caution when installing

When installing the Up/down sensor, be sure to insert the Sensor plate to the groove of the Up/down gear box B.

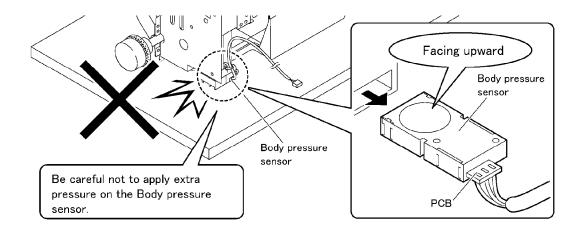


10.13.2. Removing the Body pressure sensor

- 1. Disconnect the Connector (CN206)(4) on the Main PCB.
- 2. Cut off the Insulated tie medium (5) and the Insulated tie small (6) of the lead wires.
- 3. Unscrew a screw (7) of the Intensity gear box B.
- 4. Remove the Body pressure sensor(8).

Caution when installing

- When removing the Body pressure sensor, do not pull the Lead wires strongly. Handle the PCB carefully.
- Be careful of the installation directions.
- When installing the Body pressure sensor, make the 0-point adjustment with loaded on the Massage mechanism block.



10.13.3. Removing the Intensity sensor

- 1. Disconnect the Connector (CN205) (9) on the Main PCB.
- 2. Cut off the Insulated tie medium (10) of the lead wires.
- 3. Unscrew a screw (11) of the Massage mechanism block and the Intensity sensor plate.

Caution when installing

- Make sure that the grooves of the Massage mechanism block frame and the Intensity sensor meet each others.
- When fixing Lead wires with insulated ties, be careful so that Lead wires do not hook anything.

10.13.4. Removing the Width sensor

- 1. Disconnect all the Connectors on the Main PCB.
- 2. Cut off the four Insulated ties medium (2) (5) (10) (18), one small (12).
- 3. Unscrew five screws (13) on the Main PCB installation plate and four screws (14) and three screws (15).
- 4. Cut off two Insulated tie medium (16) of the Air hoses and unscrew two screws (17).
- 5. Take off the Snap pin of the Sensor plate.

Caution when installing

- When fixing Lead wires with insulated ties, make sure that the Lead wires are not pulled moving the Massage mechanism block for the Intensity directions.

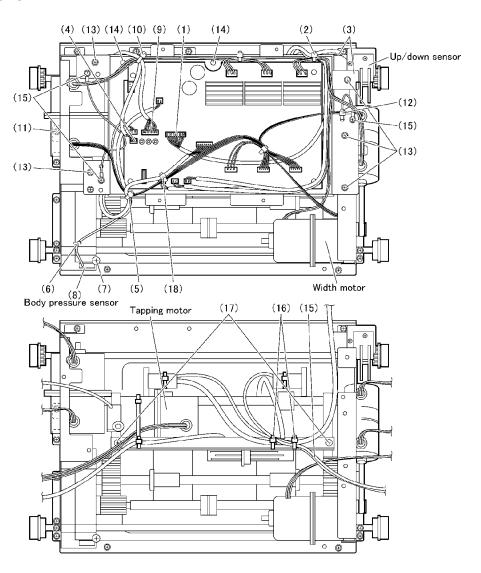
10.13.5. Removing the Tapping sensor

*Follow the procedure 10.13.4 Removing the Width sensor 1-3.

1. Unscrew a screw of the Tapping sensor.

Caution when installing

- When fixing Lead wires with insulated ties, make sure that the Lead wires are not pulled moving the Massage mechanism block for the Intensity directions.

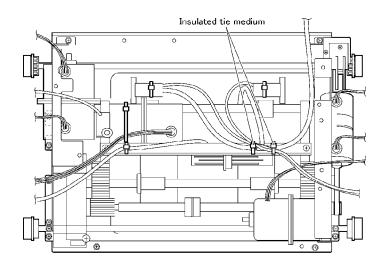


10.13.6. Removing the Air unit

- 1. Disconnect Connectors (CN201, CN208) of the Main PCB.
- 2. Unscrew five screws of the Main PCB installation plate and four screws of the Air unit.
- 3. Cut off the Insulated tie medium of the Air hoses.

Caution when installing

- You can remove the Air unit with the five screws loose of the Main PCB installation plate.



10.13.7. Removing the Width motor

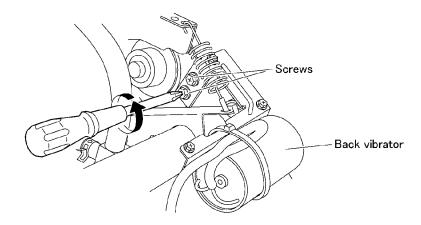
- 1. Disconnect Connectors (CN102, CN500) of the Main PCB.
- 2. Cut off one Insulated tie medium, and two small.
- 3. Remove the Width belt.
- 4. Unscrew four screws of the Width motor.

10.13.8. Removing the Back vibrator

- 1. Disconnect Connectors (CN2102, CN211) of the Main PCB.
- 2. Cut off three Insulated ties medium of the Lead wires.
- 3. Unscrew two screws of the Back vibrator.

 Caution when removing

- It would be easy to remove the Air unit if you set the Massage balls at widest and strongest.



10.13.9. Removing the Shoulder holding Air bags

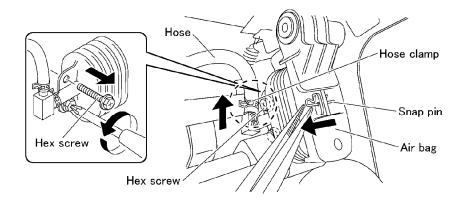
- 1. Remove the Massage mechanism block from the Rear frame.
- 2. Unscrew two Hex screws of the Air bags.
- 3. Take off the Snap pins of the Air bags.
- 4. Move the Hose clamps, and remove the Air bags from the hoses.

Caution when installing

- Be careful of the installation directions of the Hose clamps and the Snap pins.

Caution when removing

- It would be easy to remove the Air bags if you set the Massage balls at widest and strongest.

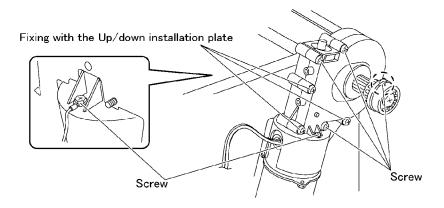


10.13.10. Removing the Up/down gear block

*You should disassemble the Up/down gear block before replacing the Up/down shaft and the Up/down motor.

*Follow the procedure 10.13.4 Removing the Width sensor 1-3.

- 1. Remove the Massage mechanism block from the Rear frame.
- 2. Unscrew 14 screws of the Massage mechanism frame, Up/down driving installation plate, and Intensity driving installation plate.
- 3. Lift the Up/down block and the Intensity block at the same time and remove the Up/down from the Massage mechanism block.
- 4. Unscrew two screws of the Up/down sensor installation plate.
- 5. Unscrew three screws of the Up/down gear box and the Up/down driving installation plate.
- 6. Unscrew four screws of the Up/down gear box A, B.
- 7. Unscrew two screws of the Up/down gear box and the Up/down motor.



10.13.11. Removing the Intensity gear block

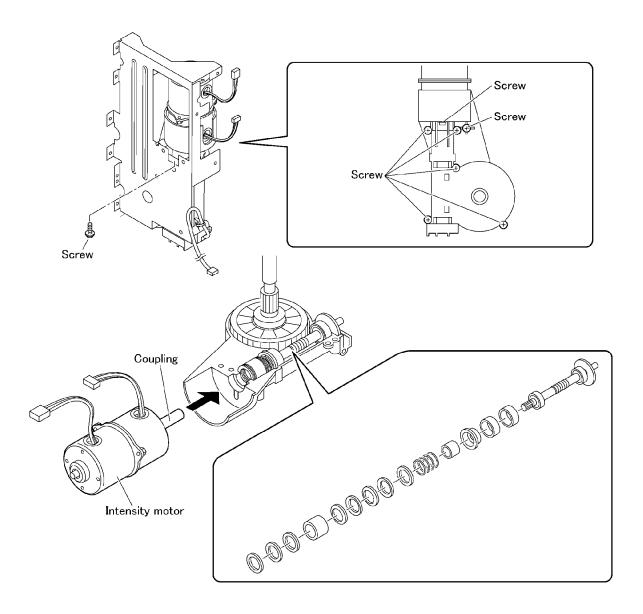
- 1. Unscrew five screws of the Intensity gear box and the Intensity driving installation plate.
- 2. Unscrew two screws of the Intensity gear box and the motor, and one screw of the Intensity gear box A.B.

Caution when installing

It would be easy if you rotate the Intensity worm shaft by hand when inserting the Intensity motor shaft to the coupling.

^{*}Follow the procedure 10.13.4 Removing the Width sensor 1-3.

^{*}Follow the procedure 10.13.10 Removing the Up/down gear block 1-3.



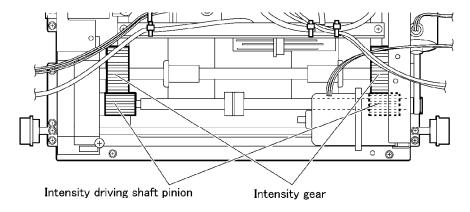
10.13.12. Removing the Width driving block

- *Follow the procedure 10.13.4 Removing the Width sensor 1-3.
- *Follow the procedure 10.13.10 Removing the Up/down gear box 1-3.
- 1. Take off the clamps of the Shoulder air bag hose 1.2 and remove the Width driving block.
- 2. Unscrew four screws of the Back vibrator left/right.

 Caution when installing

- When installing the Width driving block, install the Intensity driving shaft pinion and the Intensity gear with each gears bitten correctly. You do not need to adjust the position with the Intensity sensor.

*If you operate the Massage chair with the gears bitten incorrectly, it may cause the crack of the gears.



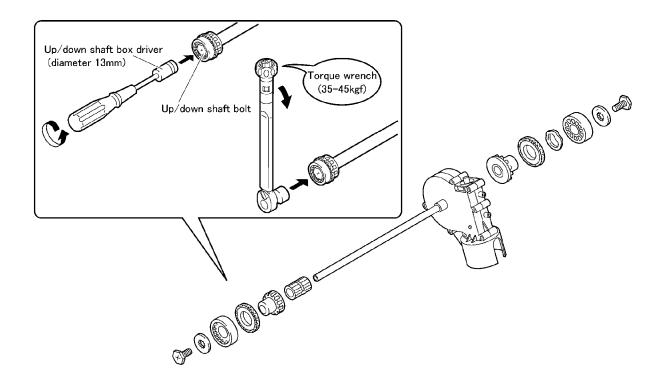
10.13.13. Removing the Up/down shaft(Up/down shaft bolt)

*Work with the Massage mechanism block unloaded.

1. Unscrew the Up/down shaft bolt with the 13mm-diameter box driver and a screwdriver.

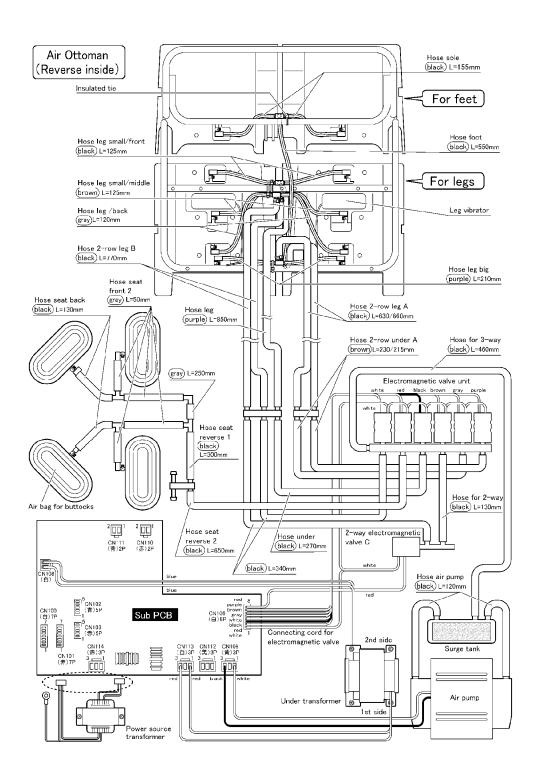
Caution when installing

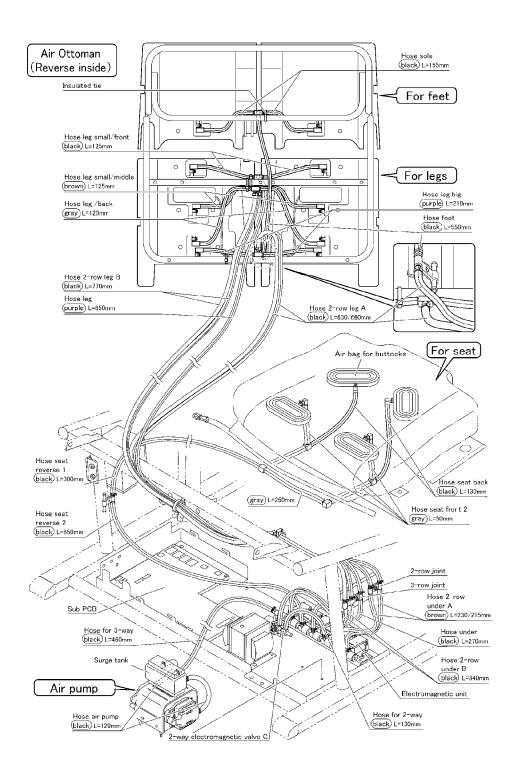
- Tightening the Up/down shaft bolt too tightly may break the bolt. Be sure to use the torque wrench and tighten the bolt with the tightening torque 35 - 45kgfcm(350 - 450Ncm).



11. ACTUAL WIRING DIAGRAM

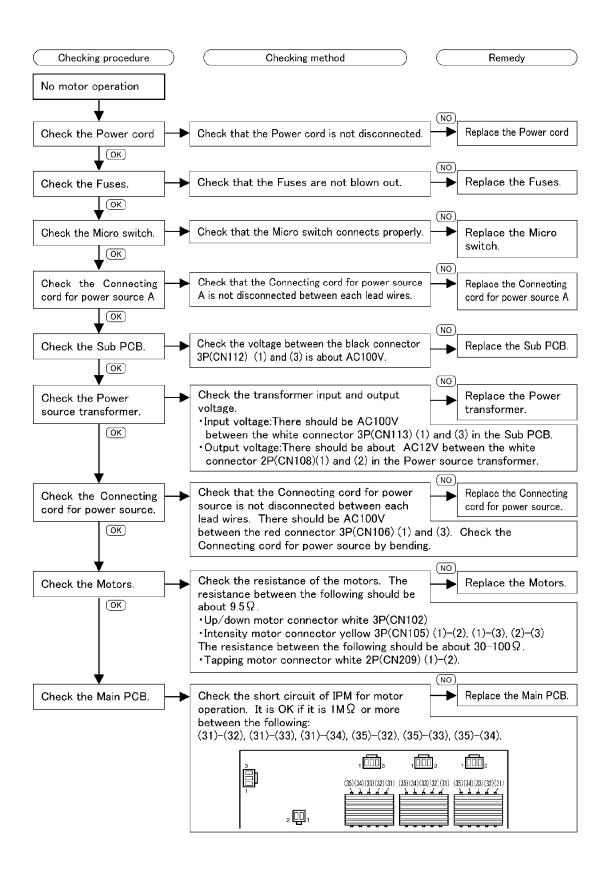
11.1. Air Ottoman

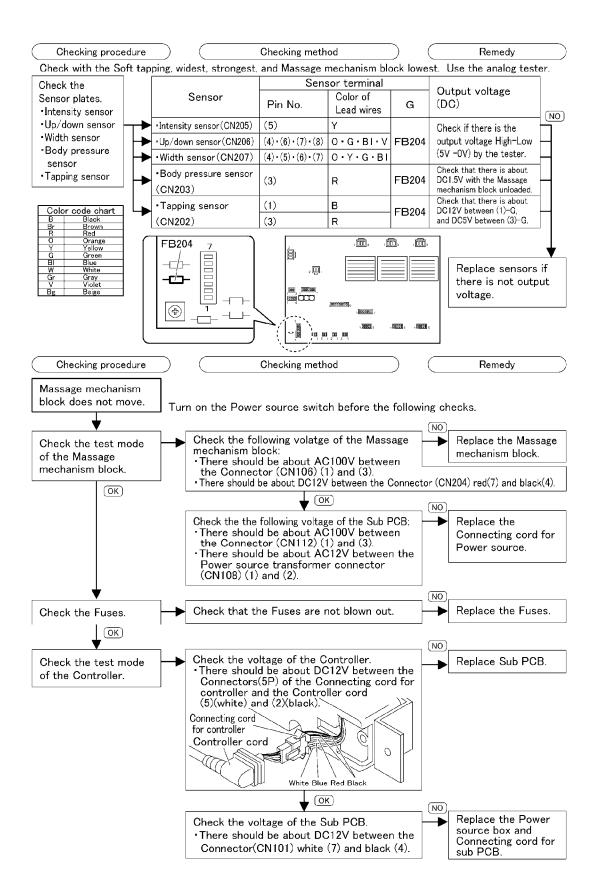


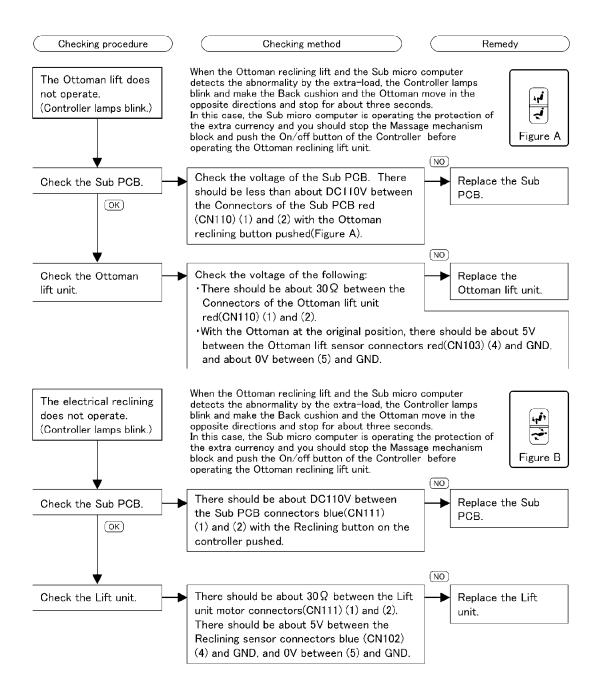


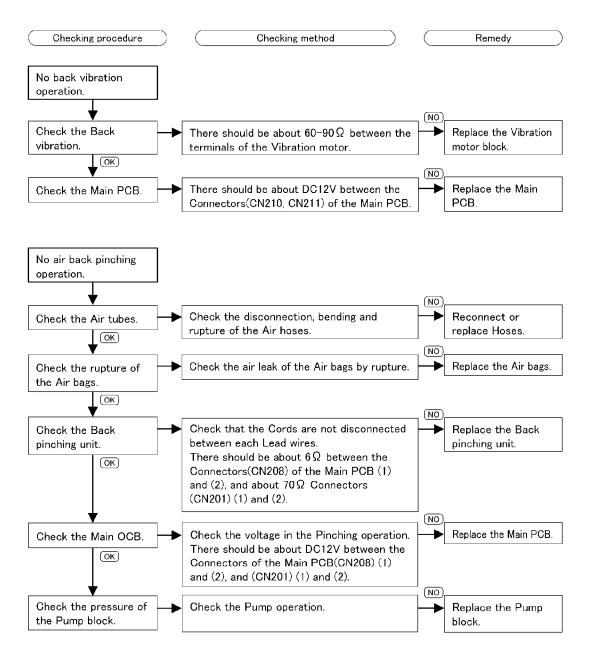
12. CHECKING

12.1. Controller, Massage mechanism block

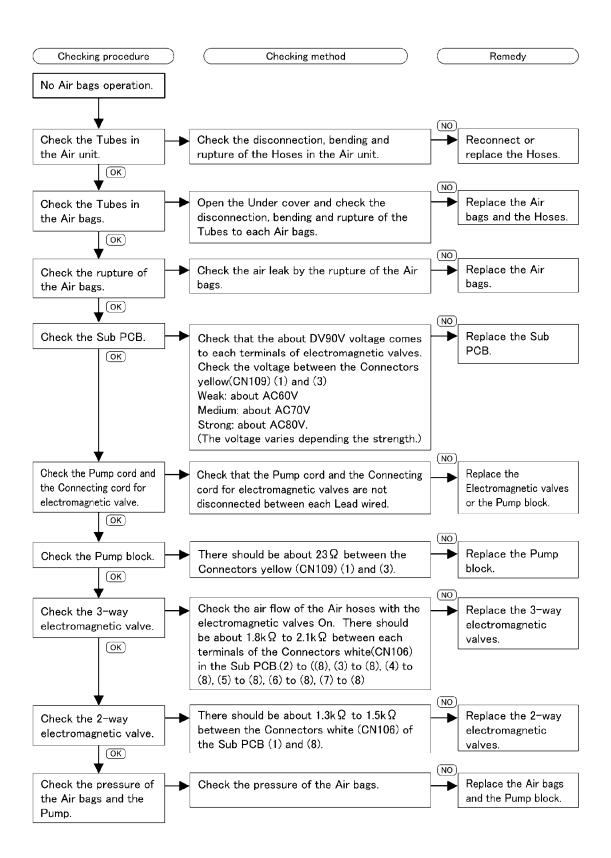






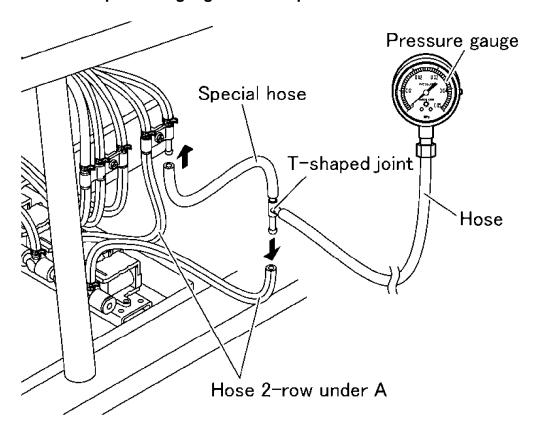


12.2. Air bags

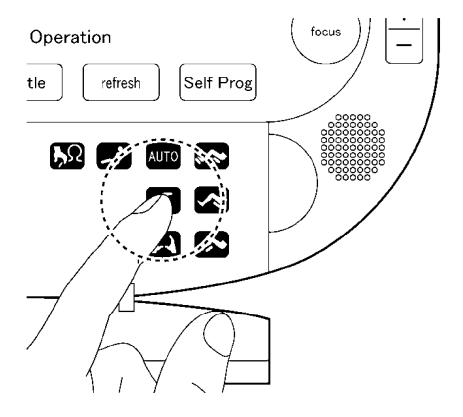


12.3. Checking the pressure of the Air bags

- 1. Follow the procedure 10.4 Removing the Under cover.
- 2. Connect the Air pressure gauge and the Special hose to the Hose 2-row leg A.

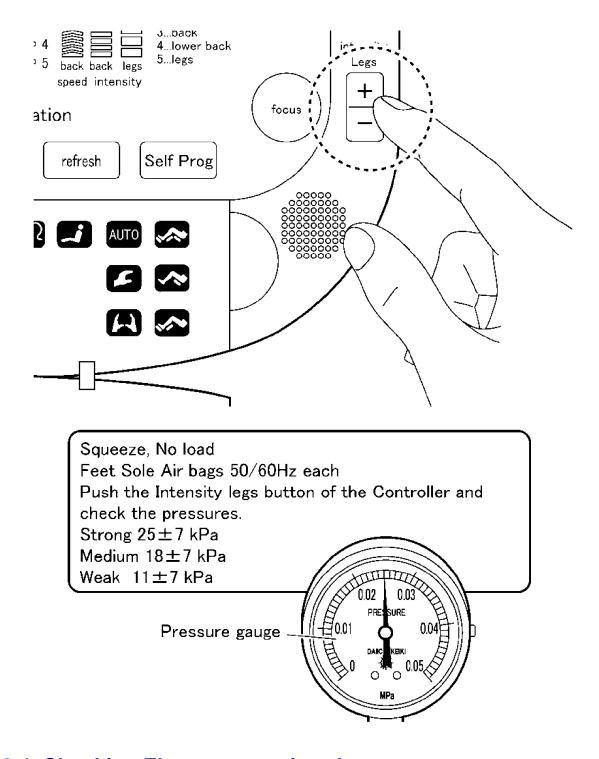


3. Turn on the On/off switch of the Controller and push the Squeeze button.



4. Check the three pressures of the Intensity legs button on the Controller. If the pressure rates are within certain ranges, the Air bag and the Pump unit are OK. If the rates are low, check the pressure of the Pump unit. If the Pump unit is OK, there are something wrong with the Air bag or the Electromagnetic valves. Caution

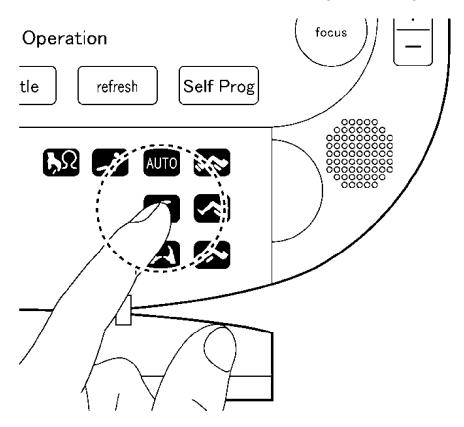
Be careful not to bend hoses while checking.



12.4. Checking Electromagnetic valves

Follow the procedure 10.4 Removing the Under cover and 10.4 Removing the Under box, Under box cover.

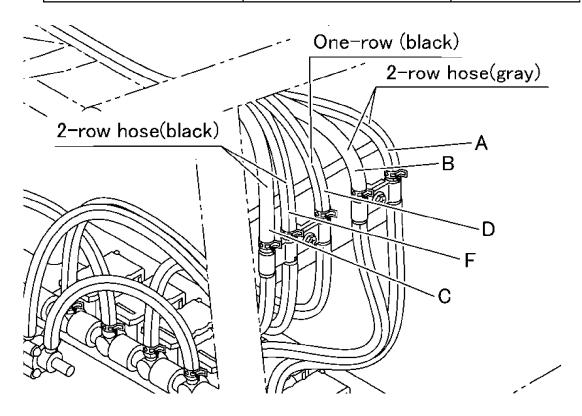
1. Turn on the On/off switch of the Controller and push the Squeeze button.

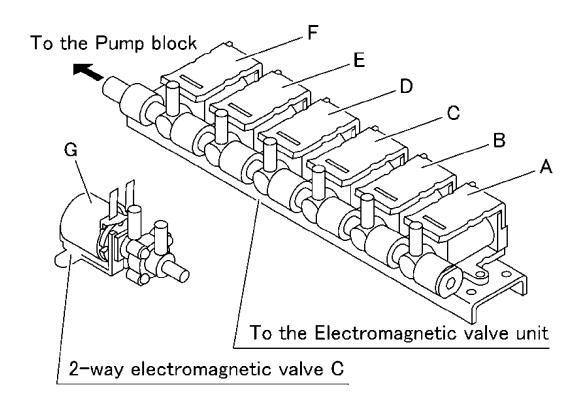


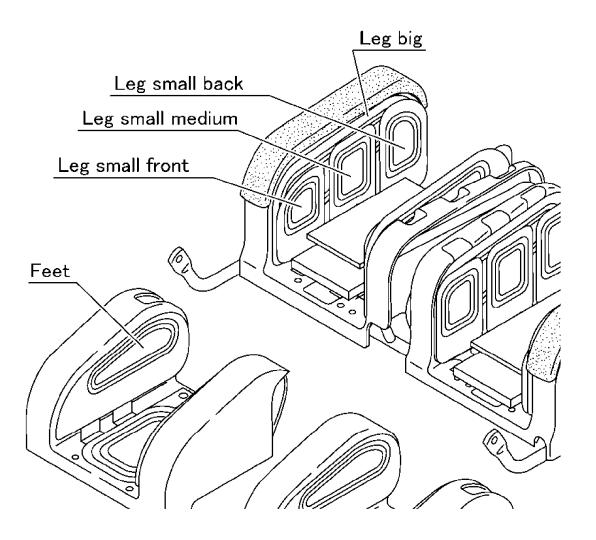
2. Disconnect the Hoses with the air flow and the operating voltages of the Electromagnetic valves.

There should be about DC90V between the Connectors(CN106) of the Sub OCB.

Lead wires	Air bag	Electromagnetic
—Pin No.—GND		valve
Red—(1)—GND	2-way electromagnetic valve	G
Violet—(2)—GND	Feet	А
Brown—(3)—GND	Leg big	С
Gray—(4)—GND	Leg small back	В
White—(5)—GND	Leg small medium	F
Black—(6)—GND	Leg small front	D
Red—(7)—GND	Seat	E



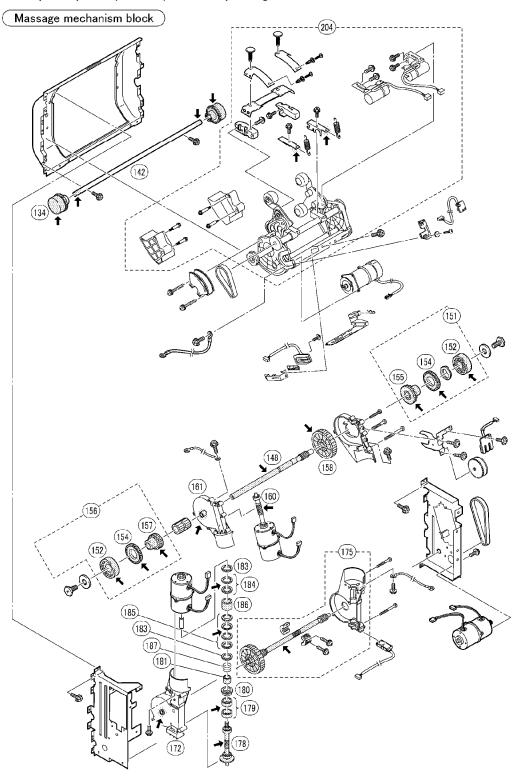




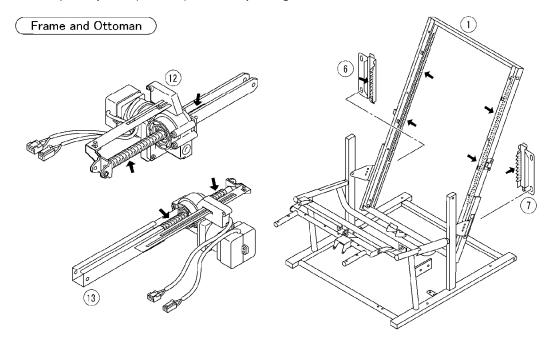
- 3. There should be the following resistance between the terminals of each Electromagnetic valves:
 - 3-way electromagnetic valves: about 1.8- 2.1k ♀
 - 2-way electromagnetic valves: about 1.3-1.5k ♀

13. GREASE

Grease up the parts () when repairing.



Grease up the parts () when repairing.



No. in the exploded view	Parts names	Grease	Grease No.	
(13)	Ottoman lift unit			
(142)	Shaft			
(158)	Up/down worm wheel		WEP001T8907(70g) WEP002T8907(300g)	
(160)	Up/down motor worm shaft	(brown)	WE! 00210007 (000g)	
204)	Intensity gear			
167	Rear frame, Rail piece set			
(134)	Guide roller rubber ring	Molycoat	WED003W8927(70g)	
152 (154) (155) (157)	Guide roller B, Rubber ring, Pinion B, Pinion C	(white)	WEP002W8927(300g)	
178 (179)	Intensity worm shaft, Bushing			
(180) (181)	Spring slide plate, Stopper ring			
(187)	Massage sensor spring		WED0043/0047/70	
(12)	Reclining lift unit		WEP001Y8947(70g) WEP002Y8947(300g)	
(175)	Intensity worm wheel	(yellow)		
204)	Arm slide shaft (two)			
204)	Width screw			
204)	Tapping shaft		WEP001Y8967(70g)	
(172)	Intensity gear box A shaft holder	Molycoat/E paste	WEP002Y8967(300g)	

14. EXPLODED VIEW















15. REPLACEMENT PARTS LIST

NOTES:

Ref.No.	Part No.	Part Name & Description	Remarks	Per Unit
1	WEP3200L0087	BACK FRAME		1
<u>2</u>	WEP3200L0887	RESIN BUSHING		10
<u>3</u>	WEP3203L0048	REAR COVER FIXING PLATE		1
<u>4</u>	WEP2000L9567	SCREW(CUP.K4-10)		5
<u>5</u>	WEP2005L0687	CORD WIRE		1
<u>6</u>	WEP3200L0767	RAIL PIECE RIGHT		1
7	EP3200L0777	RAIL PIECE LEFT		1
<u>8</u>	WEP573L6627	SCREW(CUP.S.K4-6)		6
9	WEP3200L3027	PROTECTION COVER RIGHT		1
<u>10</u>	WEP3200L3037	PROTECTION COVER LEFT		1
<u>11</u>	WEP2110L0907	HINGE PIN A2		2
<u>12</u>	WEP3203L1768	RECLINING LIFT UNIT		1
<u>13</u>	WEP3203L1778	OTTOMAN LIFT UNIT		1
14	WEP2100L0417	OTTOMAN LIFT PIN LONG		4
<u>15</u>	WEP3200K0097	UNDER PIPE		1
<u>16</u>	WEP3200L0397	SEAT PROTECTION SHEET		1
<u>17</u>	WEP596K0457	RIVET		1
18	WEP3200K3907	CASTORS		2
<u>19</u>	WEP2005K6537	SCREW(M5-16)		2
20	WEP3200K3377	SEAT PLATE		2
21	WEP596L9567	SCREW(CUP.S.K4-10)		6
22	WEP780L0447	COVER CLIP		1
23	WEP3200L0277	HOSE CLIP 1J98		1
24	WEP3200K1587	PARALLEL LINK		1
25	WEP3200L1157	LIFT BUSHING		4
26	WEP3200L0937	HINGE PIN MINI D		2
27	WEP596N0357	SNAP PIN		12
28	WEP3200K1567	LEG SLIDE LEVER		1
29	WEP3200K1627	WIRE FIXING PLATE		1
30	WEP2000L0927	HINGE PIN B		2
31	WEP757L6987	POLYETHYLENE WASHER		2
32	WEP2000L6987	WASHER		4
33	WEP2100L6937	U NUT		2
34	WEP3200L0367	SLIDE BASE		1
35	WEP3200L9587	SCREW(S.T5-28)		4
36	WEP2200L0147	2-ROW JOINT		3
37	WEP2110L0147	3-ROW JOINT		1
38	WEP2000L9577	SCREW(S.K4-16)		2
39	WEP3203K3858	AIR OTTOMAN COVER		1
<u>40</u>	WEP3203L4008	LEG AIR BAG BLOCK		1
41	WEP3200L0467	ANCHOR CLIP		4
42	WEP3200L0867	FEET SOLE AIR BAG		2
43	WEP3203K3868	FEET COVER RIGHT		1
44	WEP3203K3878	FEET COVER LEFT		1
<u>45</u>	WEP596L9567	SCREW(S.K.4-10)		10
<u>46</u>	WEP3200L0307	FEET PIPE		1
47	WEP3200L0617	URETHANE RUBBER		1
48	WEP3200L0917	HINGE PIN MINI		2
<u>49</u>	WEP3200L0887	RESIN BUSHING		2
<u>50</u>	WEP596N0357	SNAP PIN		2

Ref.No.	Part No.	Part Name & Description	Remarks	Per Unit
<u>51</u>	WEP3200L0177	SPRING		1
<u>52</u>	WEP3200L4487	LEG SLIDE LEVER WIRE		1
<u>53</u>	WEP3200L1387	SLIDER PLATE		1
<u>54</u>	WEP3200L9607	SCREW(CUP.S.K4-18)		6
<u>55</u>	WEP3200L1407	LINEAR SLIDE		2
<u>56</u>	WEP3200L1437	SLIDE STOPPER		2
<u>57</u>	WEP3200L1467	SLIDE GUIDE		2
<u>58</u>	WEP3200L1497	SLIDE HOLDER		2
<u>59</u>	WEP3200L1487	POSITION PLATE		1
<u>60</u>	WEP2000L9567	SCREW(CUP.S.K4-10)		8
<u>61</u>	WEP2800L0477	HOSE CLAMP		6
<u>62</u>	WEP3200L0897	BUTTOCKS AIR BAG		4
<u>63</u>	WEP3200L0737	HOSE SEAT SET		1
64	WEP3200L0667	HOSE FEET		1
<u>65</u>	WEP3200L0677	HOSE SOLE		1
66	WEP3200L0687	HOSE 2-ROW LEG A		1
<u>67</u>	WEP3200L0697	HOSE 2-ROW LEG B		1
68	WEP3200L0707	HOSE LEG		1
69	WEP005W8517	INSULATED TIE(MEDIUM)		4
70	WEPT211K6357	SCREW(S.K3-45)		1
<u>71</u>	WEP2110H3127	BUSHING COVER		1
72	WEP3203K2008	POWER SOURCE SWITCH BLOCK		1
73	WEP3203K2058	POWER CORD		1
74	WEP3203K2068	CONNECTING CORD FOR POWER SOURCE B		1
<u>75</u>	WEP3200L0077	POWER SOURCE BOX LID		1
<u>76</u>	WEP3203K2078	CONNECTING CORD FOR CONTROLLER		1
<u>77</u>	WEP2000L0717	ROD HOLDER C		1
<u>78</u>	WEP3203K3108	UNDER BOX TOP/RIGHT		1
<u>79</u>	WEP3203K3118	UNDER BOX TOP/LEFT		1
80	WEP3200L3757	EDGE GUARD		1
<u>81</u>	WEP596L9567	SCREW(CUP.S.K4-10)		10
82	WEP3200L0757	HOSE 2-ROW UNDER A		10
	WEP3200L0817	HOSE 2-ROW UNDER B		1
83	WEP3200L0817	HOSE UNDER		1
84		HOSE UNDER 2		
85 86	EP3200L0797 WEP3200L0807	HOSE PUMP		2
		ELECTROMAGNETIC VALVE UNIT		
<u>87</u>	WEP3203L4068 WEP3200L2437			1
<u>88</u>		2-WAY ELECTROMAGNETIC VALVE		1
89	WEP3203L4478	PUMP UNIT		1
90	WEP3203L2108	SUB PCB		1
<u>91</u>	WEP3200L2257	PCB HEAT RESISTANCE SHEET 2		1
92	WEP2000L6017	SCREW(CUP.S.M3-5)		4
93	WEP2110L0517	PCB SPACER		5
94	WEP2000L6967	BUSHING FOR PCB		3
<u>95</u>	WEP3203L2238	POWER SOURCE TRANSFORMER		1
<u>96</u>	WEP3203K0008	TRANSFORMER INSTALLATION BLOCK		1
<u>97</u>	WEP573L6627	SCREW(CUP.S.K4-6)		6
<u>98</u>	WEP3200L2907	CONNECTING CORD FOR ELECTROMAGNETIC		1
		VALVE		

Ref.No.	Part No.	Part Name & Description	Remarks	Per Unit
<u>100</u>	WEP3200L0657	HOSE 2-WAY		1
<u>101</u>	WEP3200L0647	HOSE 3-WAY		1
<u>102</u>	WEP2800L0477	HOSE CLAMP		10
<u>103</u>	WEP3200L0287	SURGE TANK		1
<u>104</u>	WEP3200L2277	HEAT RESISTANCE SHEET 1		1
<u>105</u>	WEP3200L2287	HEAT RESISTANCE SHEET 3		1
106	WEP005W8537	INSULATED TIE MEDIUM T30R/SF		1
<u>107</u>	WEP005W8517	INSULATED TIE T30R		1
108	WEP3203K4458	CONTROLLER BLOCK		1
109	WEP3203K0018	CONTROLLER STAND		1
110	WEP3200H7937	INSTALLATION SCREW SET		1
111	WEP3203K3128	SIDE COVER RIGHT		1
112	WEP3203K3138	SIDE COVER LEFT		1
113	WEP2110L0427	SCREWRIVET 21M2		8
114	WEP3203K0568	ARM PARTS RIGHT		1
115	WEP3203K0578	ARM PARTS LEFT		1
116	WEP2110K9697	SCREW(S.T4-10)		6
117	WEP3203K3708	ARMREST RIGHT		1
118	WEP3203K3718	ARMREST LEFT		1
119	WEP3203K3618	HEADREST		1
120	WEP3203K3638	BACK CUSHION		1
121	WEP3203K3148	MASSAGE WHEEL COVER		1
122	WEP3200L0857	CENTER HOOK		1
123	WEP757L9687	SCREW(T4-16)		8
124	WEP3200K3177	REAR COVER TOP		1
125	WEP2200L9697	SCREW(P.T4-16)		2
126	WEP3203K3158	REAR COVER BOTTOM		1
127	WEP3203K3648	SEAT		1
128	WEP3203K3168	UNDER COVER RIGHT		1
129	WEP3203K3178	UNDER COVER LEFT		1
130	WEP596K0457	RIVET		12
131	WEP2110K0447	RIVET		2
132	WEP3200K0567	INSULATED TIE OS170-FT7		2
133	WEP005W8527	INSULATED TIE LARGE		5
134	WEP760L0157	GUIDE ROLLER ASSEMBLY		2
135	WEP3203L2118	MAIN PCB		1
136	WEP3203L2118	PCB COVER		1
137	WEP780L0447	COVER CLIP		1
138	WEP3203K2088	CONNECTING CORD FOR POWER SOURCE		1
141	WEP3203R2088	MAIN FRAME		1
141	WEP3200L0047 WEP3200L0317	SAHFT		1
142	WEP3200L0317 WEP3200L0097	PROTECTION COVER RIGHT		1
144	WEP3200L0097	PROTECTION COVER RIGHT		1
	WEP3200L0107 WEP3200S9547	SCREW(CUP.S.M4-18)		2
145	WEP320059547 WEP3200L0457	SNAP RIVET(SR-5055)		4
146	WEP3200L0457 WEP3203L4538	, ,		
147		UP/DOWN GEAR BLOCK		1
148	WEP5200L0377	UP/DOWN SHAFT		1
149	WEP596L6057	UP/DOWN SHAFT BOLT		2
<u>150</u>	WEP3200L3537	FITTING		2
<u>151</u>	WEP3200L1457	GUIDE ROLLER C BLOCK		1

Ref.No.	Part No.	Part Name & Description	Remarks	Per Unit
<u>152</u>	WEP545H1937	GUIDE ROLLER B		2
<u>153</u>	WEP2200L1907	PINION C SPRING		1
<u>154</u>	WEP578AL0317	RUBBER RING		2
<u>155</u>	WEP3200L1447	PINION C		1
<u>156</u>	WEP3200L1477	GUIDE ROLLER B BLOCK		1
<u>157</u>	WEP3200L0427	PINION B		1
<u>158</u>	WEP3200L1417	UP/DOWN WORM WHEEL		1
<u>159</u>	WEP2200L0337	UP/DOWN SHAFT HOLDER B		2
<u>160</u>	WEP3203L4378	UP/DOWN MOTOR BLOCK		1
<u>161</u>	WEP3200L0187	GROUND WIRE A		1
<u>162</u>	WEP3200L2187	UP/DOWN SENSOR		1
<u>163</u>	WEP3200L1397	UP/DOWN SENSOR GEAR		1
<u>164</u>	WEP3200L1847	UP/DOWN SENSOR PLATE		1
<u>165</u>	WEP3200L1767	UP/DOWN GEAR BOX A		1
<u>166</u>	WEP3200L1797	UP/DOWN GEAR BOX B		1
<u>167</u>	WEP3200L0227	UP/DOWN SHAFT PLATE		1
<u>168</u>	WEP3203L4608	INTENSITY SHAFT BLOCK		1
<u>169</u>	WEP3200L2197	BODY PRESSURE SENSOR		1
<u>170</u>	WEP3203L1048	INTENSITY MOTOR BLOCK		1
<u>171</u>	WEP3200L0197	GROUND WIRE B		2
<u>172</u>	WEP3200L1787	INTENSITY GEAR BOX B		1
<u>173</u>	WEP3200L1777	INTENSITY GEAR BOX A		1
<u>174</u>	WEP3200L0237	INTENTISTY SHAFT PLATE		1
<u>175</u>	WEP3200L1487	INTENSITY SHAFT BLOCK		1
<u>176</u>	WEP3200L0407	WIDTH STOPPER		2
<u>177</u>	WEP596L9137	SCREW(CUP.2.K4-14)		2
<u>178</u>	WEP3200L1377	INTENSITY WORM SHAFT		1
<u>179</u>	WEP3200L1167	BUSHING		2
<u>180</u>	WEP3200L1177	SPRING SLIDE PLATE		1
<u>181</u>	WEP3200L1207	STOPPER RING		1
<u>182</u>	WEP3200L1187	COUPLING		1
<u>183</u>	WEP3200L1217	SPACER(0.6)		2
<u>184</u>	WEP3200L1227	SPACER A		2
<u>185</u>	WEP3200L1247	SPRING		4
<u>186</u>	WEP3200L1237	SPACER(17.2)		1
<u>187</u>	WEP3200L1197	SPRING		1
<u>188</u>	WEP3200L4957	INTENSITY SENSOR		1
<u>189</u>	WEP3200L1857	INTENSITY SENSOR PLATE		1
<u>190</u>	WEP2200L1107	WIDTH BELT		1
<u>191</u>	WEP3203L4048	WIDTH MOTOR BLOCK		1
<u>192</u>	WEP3203L2268	INTENSITY SENSOR PLATE		1
<u>193</u>	WEP3203L4038	TAPPING MOTOR BLOCK		1
<u>194</u>	WEP3203L2278	REVOLUTION SENSOR		1
<u>195</u>	WEP3200L1867	REVOLUTION SENSOR PLATE		1
<u>196</u>	WEP3200L6997	WASHER		1
<u>197</u>	WEP3200L2137	WIDTH SENSOR		1
<u>198</u>	WEP3200L1877	WIDTH SENSOR PLATE A		1
<u>199</u>	WEP3200L1887	WIDTH SENSOR PLATE B		1
200	WEP3200L0167	WIDTH SENSOR SPRING		1
<u>201</u>	WEP3203L2288	WIDTH SENSOR PLATE		1

Ref.No.	Part No.	Part Name & Description	Remarks	Per Unit
202	WEP2200L3417	UP/DOWN BELT		1
<u>203</u>	WEP3203L4638	WIDTH SHAFT BLOCK		1
204	WEP3203L4028	TAPPING BLOCK		1
<u>205</u>	WEP3200L0207	ECCENTRIC LING PLATE RIGHT		1
<u>206</u>	WEP3200L0217	ECCENTRIC LING PLATE LEFT		1
207	WEP3200L0157	ARM PULLING SPRING		2
<u>208</u>	WEP3203L1788	BACK VIBRATOR(RIGHT)		1
209	WEP3203L1798	BACK VIBRATOR(LEFT)		1
<u>210</u>	WEP2110L0367	SNAP PIN SSP-5		1
<u>211</u>	WEP3203L3858	HEAD PROTECTION COVER RIGHT		1
212	WEP3203L3868	HEAD PROTECTION COVER LEFT		1
<u>213</u>	WEP3200L9657	SCREW(S.M5-38)		4
214	WEP2000L9567	SCREW(CUP.S.K4-10)		32
<u>215</u>	WEP596L9647	SCREW(B4-35)		2
<u>216</u>	WEP596L9537	SCREW(2.K4-25)		4
217	EP2200L9677	SCREW(S.M4-40)		2
218	WEP3200L9677	SCREW(CUP.S.K4-30)		1
<u>219</u>	WEP3200L9517	SCREW(S.M4-45)		5
220	WEP2200L9697	SCREW(P.T4-16)		6
221	WEP760N9607	SCREW(K4-10)		2
222	WEP590L6017	SCREW(CUP.S.K3-6)		5
223	WEP573L6627	SCREW(CUP.S.K.4-6)		16
224	WEP2110L0427	RIVET 21M2		4
225	WEP3200L0437	PLATE STOPPER RIGHT		1
<u>226</u>	WEP3200L0447	PLATE STOPPER LEFT		1
227	WEP3200L0417	PLATE STOPPER COVER		2
228	WEP3200L0387	PROTECTION CLOTH		1
229	WEP3200K0457	BRUSHCLIP		1
230	WEP3200L0037	PCB INSTALLATION BOARD		1
231	WEP3200L0517	PCB SPACER		2
232	WEP2000L6967	BUSHING FOR PCB		2
233	WEP3203L3878	MASSAGE MECHANISM COVER		1
234	WEP005W8537	INSULATED TIE MEDIUM T30R/SF		1
<u>235</u>	WEP005W8517	INSULATED TIE MEDIUM		2
236	WEP005W8507	INSULATED TIE SMALL		2
	WEP3203L4018	MASSAGE MECHANISM BLOCK		1
	WEP3203K8008	PACKAGING		1
	WEP3203L8108	INSTRUCTION MANUAL		1
	WEP3203L8098	ASSEMBLY MANUAL		1
	WEP3203L8238	USAGE SHEET		1

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